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METEOROLOGICAL DATA REPORT 20302A Assault Breaker Missile Number TFT-4 Round Number V3A2 20 Feb 1982

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DONALD C. KELLER Program Support Coordinator Phone Number (505) 679-9568 AVN Number 349-9568

ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

UNITED STATES ARMY ELECTRONICS COMMAND

APR 27 1982

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20. ABSTRACT (Continue an reverse side if necessary and identity by block number)	
>Meteorological data gathered for the launching of t Missile Number TFT-4, Round Number V3A2, ≯presented	the 20302A Assault Breaker, $\frac{1}{2}$ in tabular form:

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SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered)

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#### INTRODUCTION

20302A Assault Breaker, Missile Number TFT-4, Round Number V3A2, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 0910:45 MST, 20 Feb 1982. The scheduled launch time was 0900 MST.

#### DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

#### 1. Observations

#### a. Surface

- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density  $(gm/m^3)$ , wind direction and speed, and cloud cover were made at the LC-33 and Jallen Met Sites.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

### b. Upper Air

(1) Low Level wind data were obtained form pilot-balloon observations at:

#### SITE AND ALTITUDE

LC-33	2760 Meters	0855 MST
LC-33	2760 Meters	0911 MST
Jallen	1380 Meters	0850 MST
.lallen	480 Maters	0911 MST

(2) Air structure data (rawinsonde) were collected at the following Met Sites:

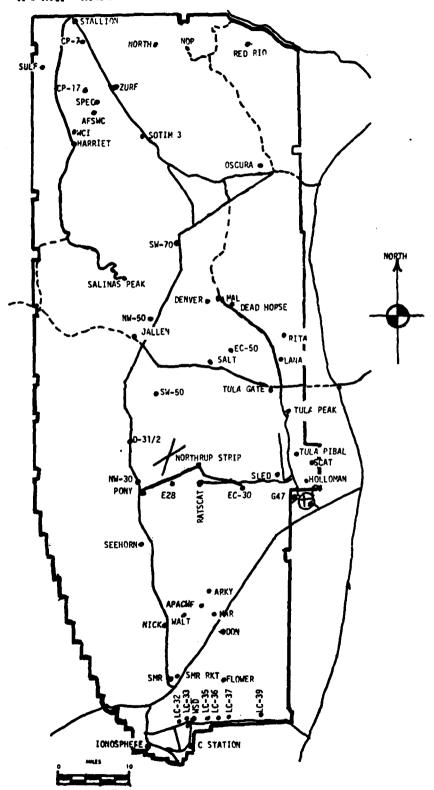
SITE AND TIME

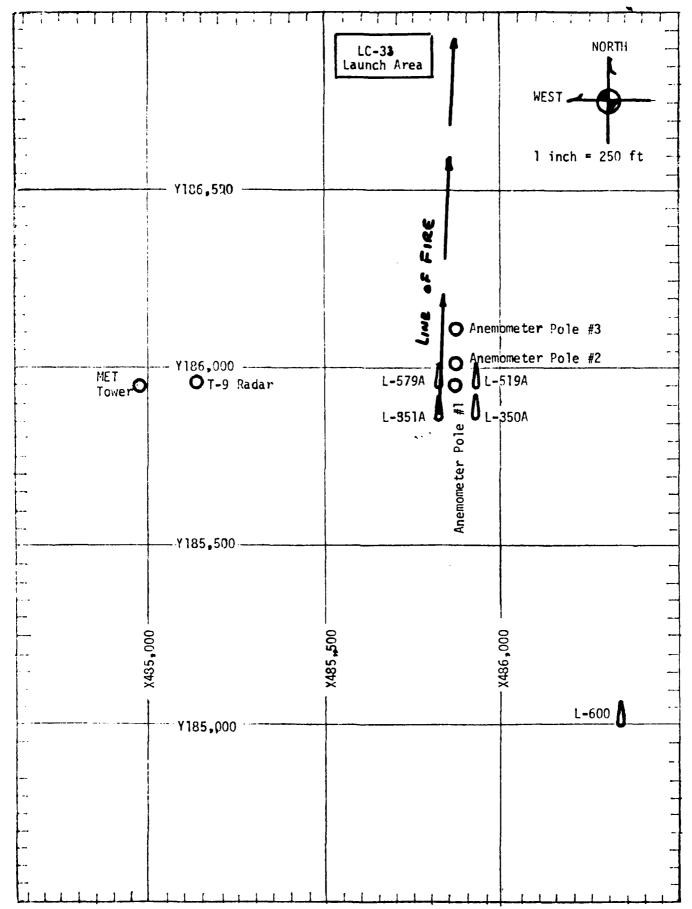
Holloman	0630 MST
Jallen	0745 MST
LC-37	0800 MST
Jallen	0910 MST
WSD	0911 MST



Acces	sion For	
NTIS	GRA&I	M
DTIC	TAB	<b>1</b>
Unann	ounced	
Justi	fication	
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Ву		
Distr	ibution/	
Avai	lability (	Codes
1	Avail and	/or
Dist	Special	
		1
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		j

# WSMR METEOROLOGICAL SITES





PROJECT SURFACE OBSERVATION

DATE         20         Feb DAY         1982           TIME         PRESSURE mbs         TEMPERATURE of OF OC         DEW POINT OF OC           0911         884.4         12.2         2.2			ST	STATION LC-33	-33		
PRESSURE TEITPERATURE DEW PO. mbs of oc of OF 12.2	982		<b>"</b>	X= 484,982.64 Y=185,957.73 H=3983.00	Y= 185,	957.73 H=	3983.00
884.4 12.2	DEW POINT OF OC	HUMIDITY DE	DENSITY gm/m3	DIRECTION SPEED CHARACTER degs In kts	WIND SPEED G kts	HARACTER kts	VISIBIL- ITY
		50 . 1	1075	310	90		50

REHARKS						
LAYER	TYPE   HGT					
l 3rd	AM					
Ŗ	нст					
2nd LAYE	T   TYPE					
				<u> </u>		
YER	E I HGT	-	<u>_</u>			
1st LA	AMT   TYP	-1	Н Т Л			
OBSTRUCTIONS	TO VISIBILITY		<b>,</b>			
	OBSTRUCTIONS 1st LAYER 2nd LAYER   3rd LAYER	OBSTRUCTIONS 1st LAYER 2nd LAYER 3rd LAYER TO VISIBILITY AMT TYPE   HGT   AMT   TYPE   HGT   AMT   TYPE   HGT	OBSTRUCTIONS 1st LAYER 2nd LAYER 3rd LAYER TO VISIBILITY AMT TYPE HGT AMT TYPE HGT AMT TYPE HGT	OBSTRUCTIONS 1st LAYER 2nd LAYER 3rd LAYER TO VISIBILITY AMT TYPE   HGT AMT TYPE   HGT C L E A R	OBSTRUCTIONS 1st LAYER 2nd LAYER 3rd LAYER  TO VISIBILITY AMT TYPE HGT AMT TYPE HGT  C L E A R	OBSTRUCTIONS 1st LAYER 2nd LAYER 3rd LAYER  TO VISIBILITY AMT TYPE   HGT AMT TYPE   HGT  C L E A R

N.				
PSYCHROMETRIC COMPUTATION	0911	12.2	7.1	5.1
PSYCH ROPE TRI	:	DRY BULB TEMP.	WET BULB TEIP.	WET BULB DEPR.
	TIME:	DRY	Ę,	VET.

52

RELATIVE HUMID.

DEW POINT

Y185,95 Н4018.7	5,874.29       X485,674.93       X485,377.29         5,958.90       Y186,012.00       7136,116.06							
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPERM	T-TIME SEC	DIP big	CPRED K13
T-30	320	04	T-30	321	04	T -30	332	08
T-20	317	04	T-20	335	04	T -2)	333	07
T-10	315	04	T-10	332	04	T -13	324	07
TO.O	305	05	T0.0	322	05	¦Τ ().)	325	07
T+10	300	04	T+10	320	05	T +1)	328	06

TABLE 3	LC-33	METEOROLOGICAL	TOWER	AREMOMETER	MEAS URED	WINDs	(202 F	T TOWER)
---------	-------	----------------	-------	------------	-----------	-------	--------	----------

	73, H3983.00 (base)			3, H3983.00 (hase)
DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KIS
329	05	T-30	318	06
306	06	T-20	321	06
308	06	T-10	335	05
310	06	T0.0	327	06
318	07	T+10	336	05
	329 306 308 310	NY185,057.73, H3983.00 (base)       DIR DEG     SPEED KTS       329     05       306     06       308     06       310     06	NY185,057.73, H3983.00 (base)       X484.982.64         DIR DEG       SPEED KTS       T-TIME SEC         329       05       T-30         306       06       T-20         308       06       T-10         310       06       T0.0	Y185,057.73, H3983.00 (base)       X484.982.64, Y185,057.7         DIR DEG       SPEED KTS       T-TIME SEC       DIR DEG         329       05       T-30       318         306       06       T-20       321         308       06       T-10       335         310       06       T0.0       327

LEVEL #3, 10 X484,982.64		'3, H3983.00 (base)	LEVEL #4, 202 FEET X484,982, Y185,057.73, H3983.00 (base)				
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS		
T-30	316	05	T-30	324	06		
T-20	314	06	T-20	318	07		
T-10	315	05	T-10	331	05		
TO.0	328	05	T0.0	332	07		
T+10	339	05	T+10	330	06		

#### PILOT BALLOON MEASURED WIND DATA

			FILU. D	MELOUN MENSO	NEU HINU U	N I A		
TABLE	4	<del>-</del>						
BELEASE	D FROM LC	- 33	DATE	20 Februa	ry 82		TIME 0855	MST
	200	EDINATES (	(NSTM) X=	486,872.0	0 Y=	184,146.7	5 <i>i</i> = 398	31.15
нетонть -	ARE METERS	AGL XX O	< FEET AGL	•				
	। प्रशासकारी		HEIGHT	DIRECTION	SPEED	HEIGHT	DIRECTION	
AGL	DEGREES	FROTS	AGL	DEGREES	KIKOTS	AGL	DEGREES	L KHOTS
SFC	070	06	1800	353	16			· 
60	035	07	1860	355	16			ļ
120	013	10	1920	357	15			
180	002	13	1980	359	14			<del></del>
240	359	16	2040	005	14			
300	356	18	2100	012	14			
360	355	20	2160	018	14			
420	355	22	2220	020	16			
480	354	23	2230	022	17			
540	355	24	2340	026	16			
600	355	25	2400	030	15			
660	356	25	2460	035	15			
720	356	25	2520	039	15			<u> </u>
780	356	24	2580	042	16			
840	356	24	2640	043	17			
900	357	23	2700	044	18			
960	357	23	2760	043	18			
1020	355	22						
1080	354	22						
1140	352	21						
1200	350	21						
1260	348	20						
1320	346	20						
1380	345	19						
1440	344	19		<u> </u>				<del> </del>
1500	344	18		<del> </del>				<del> </del>
1560	344	17						†
1620	346	17		<u> </u>	-			<del> </del>
1690	340	17		<del></del>		ļ		

# PILOT BALLOON MEASURED WIND DATA

MILEASE!	O TROM_LC=1	33	DATE	20 Feb 82			TIME 0911	MSI
	Cid	ORDINATES	(WSTM) X=	486,872.00	γ <u>18</u>	4,146.75	i =39	981.15
ht I SHTS	ARE METER	AGE_XO	OK FEET AGE_					
HETGET AGL	THEREGIES DEGREES	1   341   10     1   1013	HEIGHT AGL	DIRECTION DEGREES	SPELD KMOTS	PEIGHT AGL	DEGREES	
SFC	310	06	1800	341	25			
60	332	06	1860	341	24	ļ		
120	350	07	1920	345	22			
180	004	09	1980	350	20			
240	002	10	2040	353	19			
300	001	12	2100	356	19			
360	360	13	2160	358	18			an gama manang labahan
420	358	15	2220	357	18		· · ·	·
480	357	17	2280	356	18			
540	356	19	2340	359	17			:
600	355	21	2400	001	16			
660	354	24	2460	007	16			
720	355	26	2520	016	16			
780	355	29	2580	023	17			
840	355	31	2640	030	18			
900	357	33	2700	035	19			
960	358	36	2760	038	18			
1020	359	36	1322					
1080	359	35						
1140	359	34						
1200	358	31						
1260	356	29						
1320	355	27						(
1380	354	26					·	
1440	352	25						
1500	351	24						
1560	349	24						
1620	345	24	-					
1680	342	25					<del></del>	
1740	341	26						

PROSECT SURFACE OBSERVATION

TABLE 6								STATIC'I Jallen	llen		
DATE 20	Feb	1982 VEAR					~	(= 450,362.0g	3 7-4	X= 450,362.08 Y= 464,129.26 H= 4053.51	- 4053.51
11ME 11S II	PRESSURE mbs	TETPE	TEMPERATURE OF OC	DEW POINT OF OC		PELATIVE HUMIDITY %	DE73511Y gm/mg	DIRECTION degs In	SPER C	LIFRACTER kts	VISIBIL- ITY
0830	881.9		11.9		-2.5	-2.5 36	1074		CALM		50+
0160	882.4		14.2		-0.4	-0.4 36	1065	090	07		+05
0940	882.5		14.3		0.0	0.0	1064	090	08		50+

		CI ONDS		
OBSTRUCTIONS	1st LAYER	2nd LAYER	1 3rd LAYER	REHARKS
TO VISIBILITY	AMT   TYPE   HGT	AMT   TYPE   HGT	AMT TYPE HGT	
CLEAR				
CLEAR				
CLEAR	-			

PSYCHROLETRIC COMPUTATION

TIVE:	0830	0910	0940
DRY BULB TEMP.	11.9	14.2	14.3
WET BULB TEIP.	5.5	7.0	7.2
WET BULB DEPR.	6.7	7.2	7.1
DEW POINT	-2.5	-0.4	0.0
RELATIVE HUMID.	36	36	37

# PILOT BALLOON MEASURED WIND DATA

RELEASED	FROM Jalle	en		_DATE	20 Feb 82			0850 M	ST
	(00)	RDINATES	(WSTM)	χ =	450,362.08	Y=	464,129.26	i = 4053	. 51
IE I GHTS	ARE METERS	AGL X	OR FE <b>ET</b>	AGL_	·				
HETGHT AGL	DIRECTION DEGREES	SPEED	HE I AGL		DIRECTION DEGREES	SPEED	HE I GHT AGL		SPEED
SFC	060	07							•
60	007	05	r				,		•
120	334	. ja			;		, <del></del>		. ~
.80	322	14			·	1	; i		• •
240	318	12			1	1		·	
300	313	10			1			1	
360	310	08							:
420	321	0.7							
480	331	07						• <del></del>	1
540	340	07				1		<del> </del>	; ·
600	348	08				1	, , , , , , , , , , , , , , , , , , ,	<del> </del>	; - <del></del>
660	354	08						· · · · · · · · · · · · · · · · · · ·	
720	002	10						!	
780	007	12						1	
840	009	14						·	
900	009	16							
960	009	17							
1020	008	16							
1080	007	15							!
1140	008	14							
1200	015	12							
1260	024	11							
1320	034	10							-
1380	048	09							
1440	LOST IN	\$UN							-
		1						<del> </del>	†
								1	
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					<del> </del>	<del></del>			j

## PILOT BALLOUR MEASURED WIND DATA

TABLE	8							
RELEASE	FRUM	Jallen	<u></u> DAT	E 20 Feb 82			TIME 0911 M	SI
	cr	endinates (	(MSTM) X	= 450,362.08	Y=	464.129.26	H=_405:	3.51
HE LCHTS	ARE METEL	is Agr <u>X</u> 0i	R FEET AGL					
		SPEED KAOIS	HFIGHT AGL		SPEED   KNOTS	HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
	060							
60	349	06		:		<del>   </del>		•
. 20	314							
180	314	18				,		•
240	308	13		i	1			
300	314	10		1				
		08						
1	337	08						
480	350	08						
							······································	
	1				7			
	1							
}								
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	1							
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1								
!								
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VEODETTE COURLINATES 32.88885 LAT DEG 106.09985 LON LEG																																								
UATA	KLL.IIUM. PLIRCENT		0.00	0.47	0٠٢٥	0.04	40.0	39.0	<b>0.</b> 5±	0.02	10.0	37.0	59.0	35.0	22.0	19.0	19.0	51.0																						
SIGNIFICANT LEVLL OF 1001 OF 1	TEMPLRATURE IR DEWPOINI		6	3.B	<b>*</b>	-3.0	-2.1	0.7-	٠٠٠ : ،	0.11	17:0	-16.6	-19.3	-28.9	-39.2	n•0+-	3.47-	さ。かまし																						
SIGNIFI OH OH OH OH OH OH OH OH OH OH OH OH OH	TEMP AIR	UCGREES	2.2	9.1	10.2	10.0	10.9	11.4	***	0 0	200	19-	-13.0	16.4	-23.6	-23.8	-28.3	-38.7	9-14-	-46.3	-50.3	-50.5	-50.0	-48.9	-53.0	-55.5	-55.0	0 4 4	-56.2	-59.2	-62.3	-63.2	-63.2	-67.0	6.99-	-64.3	-65.1	-61.7	-62.5	-5A.3
š	GEOMETHIC ALTITUDE	MSL FELT	4126.6	4243.0	4424.3	4756.5	5022.2	5151.5	8279.2	90091	1,000,00	14738.0	17335.0	18927.0	22073.0	22598.3	24320.5	28375.7	30877.7	32103.8	33987.3	34738.3	36863.6	37586.2	39629.9	41334.2	41806.8	4461947	46781.3	49514.2	51920.8	53246.4	54022.6	57172.8	61160.8	64288.8	66379.9	67942.0	70185.0	73684.2
. 4126.59 FEET MSL. 0630 HRS MST 53	PRESSUNE	MILLIBARS	878.4	9.476	868.8	858.3	0.050	0.946	1.46/	0.767	632.8	h*06¢	533.0	0.000			400.0	335.6	300.0	283.7	260.1	250.0	227.5	220.0	200.0	184.5	n 001	2.001	142.2	124.7	119.9	103.9	100.0	65.5	70.0	6.65	94.0	50.0	0.44	37.8
STATION ALTIIUDE 4 20 Feb. 62 Ascensiui no. 53															11																									

SIGNIFICANT LLVLL UATA

HOLLOMAIN

TABLE 9 Cont'd

VEODETTE COGGINALES 32.00005 LAT DEG 106.09305 LOH DEG

KLL.IIUM. PLRCENT

TEMPERATURE ATR DEWPOLINE DEGREES CENTIGHADE

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET

-57.6 -56.7 -50.8 -50.2 -52.2 -48.6

30.0 25.0 21.6 20.0 15.6 13.3

78500.9 82316.4 85424.9 87086.0 92433.6 95880.6

12

The second secon

STATION ALTITUDE 20 FEB. E2 ASCENSION NO.	TUDE.	4126.59 FEET MSL 0630 IIRS MST 3	ET MSL MST	-	UPPLR AIR DAIA 0510010053 HOLLOMAN TABLE 10	A1 A1 A		6E0DE11 32. 106.	GEODETIC COUNDINATES 32.00865 LAT DEG 106.09965 LON DEG
GEOMETRIC ALITUDE MSI LECT	PRE-SSURE	AI	TEMPERATURE R DEWPOINT FFS CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUDIC METER	SPEED OF SOUND	A1AU UA1 RC 1800 S	SPEED SPEED KNOTS	INJEX OF
שפר גנבו	MILLIBANS				W 71 3E	6	וורסעררים. וווי		NET MAC I TOTA
4126.6	4.978	2.5	6•1	80.0	1108.6	047.3	300.0	<b>6.0</b>	1.000276
4500.0	₽•09()	10.2	2.9	60.8	1061.9	B-950	2:1:1	9.1	1.000272
5000.0	450.7	10∙8	-2.2	40.0	1041.2		350.3	13.2	1.000256
5500.0	835.2	10.8	-2.2	40.1	1022.1	057.3	35,50	17.3	1.000252
0.0009	320.0	7.01	-2.4	41.7	1000.3	4.050	355.1	21.4	1.000248
0.0049	805-1	9.2	-2.6	43•3	9.066		7.000	23.4	1.000245
7000.0	h•06/	B • 8	-2.8	6.44	975.5	_	350.5	25.1	1.000241
7500.0	0.07/	<b>7.6</b>	1.E-	46.5	960.5		3.400	19.1	1.0002.7
0.0003	6.10	•	#•C-	48.1	745.7	052.1	* :	15.7	1.000234
8500.0	147.9	e•2	-5.9	<b>5.</b> 05	929.7	652.4	<b>**</b>	11.2	1.000226
0.0006	/34.2	9.9	-11.9	25.1	913.1	652.0	2,12	10.6	1.000215
9500.0	720.6	2.1	-12.6	25.4	899.3	050.9	0.47	10.2	
100001	107.4	4.7	-13.2	25.8	885.7		5.tr.	9.8	1.000208
10500.0	694.2	3.6	-13.5	27.3	872.H		4.5	10.5	
11000.0	c81.2	2.3	-13.3	30.3	860.5	640.0	19.0	11.5	1.000203
11500.0	4.890	6.	-13.4	33•3	840.4	645.4	10.1	11.5	1.000200
12000.0	8°CS0	<b>3</b>	-13.5	36.3	836.0	L43.U	14.0	11.5	1.000197
12500.0	643.5	-1.7	-13.7	39.3	824.9	2.240	10.01	10.9	1.000195
13000.0	4·1£a	-3.0	-14.1	41.8	813.3	2.040	79.6	10.4	1.000192
13500.0	619.3	0.4-	-15.4	<b>5.</b> 05	800.7		13.0	10.2	1.000168
14000.0	607.5	-5.0	-16.7	39.1	786.3		7.07	6.6	1.000184
14500.0	99299		-18.0	37.7	776.1	_	0.1.2	0°6	1.000161
0.00001	7 - + 20:	1:/-	13.0	29.60	75.4.3		6 4 6 7	9.1	1.000178
15.000.0	4.13c	7.0	118.5	40.40 50.70	7.1.5		0.00	? •	2/1000-1
16500.0	8-050	0.01-	18.8	51.6	730.0	0.250	3000	. ל ה	1.000173
17000-0	240+1	-12-1	-19.1	56.2	720.2		ま・グナ	11.6	1.000148
17500.0	529.5	-13.4	-20.5	56.3	709.4		オ・オァ	13.0	1.000105
18000.0	519.0	+·+I-	-22.9	48.1	690.3		40.5	14.6	1.000161
18500.0	9.50¢	-15.5	-26.0	0.04	687.5		37.5	16.2	1.000157
0.00061	S•861,	-16.6	-29.1	32.7	670.5	624.2	C.V.	16.7	1.000154
19500.0	†•08t	-17.7	-30.7	31.0	665.B		42.1	17.2	1.000151
<00000×	474.5	-18.9	-32•3	29.5	655.3		J. 8+	18.5	1.000148
20500.0	460∙8	-20.0	-33.9	27.5	6.44.9	619.9	5.40	20.0	1.000146
21000.0	454.3	-21.1	-35.6	25.8	634.7	610.5	2.60	21.9	1.000143
	ひ・ひょう	-22.3	-37.3	24.0	624.7		4.10	24.5	1.000141
22000.0	0 • 0 ÷ ÷	-23.4	-39•0	22.3	6.419	615.7	3.70	26.4	1.000138
	8•15t	-23.8	n • 0 • 1	9•61	0.503		<b>0.</b> 70	27.0	1.000135
	122.8	-24.8	-41·	19•0 19•0	1.563		γ•30 •	29.7	1.000133
23200.0	0.71	-56.2	-42.8	19.0	583.9	612.3	٧٠٠٠	32.9	1.000151

VEODETIL COUNDINALES 32-DUBDS LAT DEG 106-UFFDS LON DEG	INLX Or KEFKACTION	1.0001.9	1.000127	1.0001<5	1.000123	1.0001<1		1.000117			111000-1		1.000105	5010001		1.000099	1.00001		1.000054	1.000022	1.0000.1	1.000008	1.000006	1.00004	1.00005	1.000061	1.0000/9			1.0000/2	1.0000.1	1.00000	1.000008	1.00001	1.0000	1.000004	1.000002	1.00001	1.000000
VEODET1L 32.0 106.0	TA SPEEU KNOTS	36.8	42.1	46.6	46.6	52.2	54.5	55.2	55.1	1.00	100	7	96.00	52.5	50.5	49.2	48.5	48.4	51.6	52.8	9.64	46.B	42.6	32.5	22.5	15.1	ع در ص	1 3	11.8	13.3	14.0	14.3	12.9	11.8	12.0	12.6	12.8	12.3	11.7
	MIND DATA	<b>3.0</b> 0	5.60	34.5	5/10	21.5	3.00	30.00	7.00		<b>N</b>		200	9.00	#•pc	9.60	01.1	1.50	¥•00	0.40	71.0	T.77	7:57	٦٠. ``	7.10	3 *	2 4 2.5 3.6 7.6	1.40	347.4	5.1.5	348.5	>.0.0	7.050	313.6	ハ・カコウ	J.0K.3	7.867	1.662	300.5
JAIA Ju Con't	SPEED OF SOUND KNO15	610.7		60700	6.000	7.400					1.060	_				507.7	580.9			584.9	581.0	581.4			581.2	281.5	3.48.4 3.48.4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	501.0	579.7						1.020	574.4	573.1	573.1
UPPER AIR DAIA 0510010U55 HOLLOMAN TABLE 10 CON'T	DENSITY S GM/CUBIC METER	574.B	565.7	556.5	547.5	5.38.0	529.9	521.4	515.0	100	200	200,0	4717	46 5.6	4.004	4.024	437.5	459.4	421.6	413.9	4004	397.2	3A8.2	579.3	7.075	342.2	33.00 34.00 31.00 31.00	A 366.5	330.2	324.1	316.0	311.8	305.5	299.3	292.0	285.7	3.61%	•	267.9
5	REL . HUM. PERCENT	19.0	19.5	21.0	22.5	24.0	25.4	56.9	28.4	27.7	44 × 50	74. 7.	10.04	11.74*	•																								
T MSL MSJ	TEMPEKATURE K DEWPOINT EES CENTIGRADE	-43.9	9.44.	-45.2	-45.7	-46.2	-46.8	-47.5	-48.1	D • C • U	1089	1.00	1.00-	1.10																									
26.59 FEET MSL 0630 IRS MSF	TEMP AIR DEGREES	-27.5	-28.8	-30.0	-31.3	-32.6	-33.9	-35.2	30.0	0.01	137.0	3.05	7.04-	9.54	6.44-	-45.6	-46.2	-47.1	-48.2	-49.3	-50.3	-50.4	-50.5	-50-5	-20.6	2000	150.5	7 · 5 n -	-50.7		-52.7	-53.5	-54.3	-55.0	-55.3	-55.2	-55.7	-56.3	-56.8
4.1 53	PRESSURE MILLIBARS	4.cD+	390.5	584.4	180.1	172.0	0.490	520.5	340.6	7.147	1000	7.07	1.616	1040	298.3	291.6	285.0	518.6	272.2	560.0	259.9	254.0	248.1	547.4	230.8	, 231.1	220.9	8.41.7	210.8	200.0	201.2	190.5	191.9	187.4	183.1	178.7	C-+/	F-0/1	160.4
STATION ALTITUDE 20 FEB. b2 ASCENSION NO.	GEUMETRIC ALTITUDE MSL FEET	24000.0	•	25000.0	25500.0	0.00002	20200.0	<7000·0	27500.0	0.0007	0.00000	0.00067	0.00004	3.00000	31000.0	31500.0	32000.0	32500.0	33000.0	13500.0	34000.0	24500.0	35000.0	35500.0	35000.0	0.00000	57500.0	38000.0	34500.0	39000.0	39500.0	40000.0	•	41000.0	41500.0	42000.0	0.00024	_	43500.0

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

GEODETIC COUNTINATES 32-BBBBS LAT DEG 106-U9965 LON DEG	INDEX OF REFRACTION	1.000058	1.000001	1.000054	1.000052	1.000050	1.000049	1.000047	1.000046	1.000045	1.000044	1.000042	1.000042	1.00001	1.000040	6000001	5: 0000 · 1	1.000036	1.000035	1.000035	1.000034	1.000053	1.000032	1.000031	1.00000	1.000029	620000 · 1	1.00002	1.000027	1.000026	1.000025	1.00004	1.000023
6E0DL 710 32-4 106-4	IA SPEED KNOTS	10.9	0.01 0.10	7.1	12.6	16.0	20.0	22.3	26.3	29.8	30.0	26.2	22.3	19.7	17.5	15.2	13.1		11.8	12.0	12.0	11.0	12.6	13.6	13.9	n :	2 2	16.0	16.7	18.0	18.3	16.5	12.0
	LIGHT DATA LIND DATA LIND SI UEGICLES (IN) KI	4.56.2	4.7/7	6.007 9.14	233.7	240.7	7.75.7	200.1	212.4	7/0.1	202. 202.	275.5	303.0	305.5	7.38.7	291.3	7.00	3.44	7.407	2.76.2	2.12.3	0.40×	7.007	40102	3.CO.	0.172	2.07.	7.00.2	290.9	300.5	309.1	0-070	344.1
bala 53 Cont'd	SPLED OF SOUND NNOTS	572.4	572.4	572.8	573.u	573.5	377.	571.3	570.0	569.5	569.0	26.7.5	•	565.6	565.2	264.7	004. 0.100	56.5.7	562.9	562.1	561.3	559.0	159·4	559.4	559.4	4.655	500 500 500 500 500 500 500 500 500 500	2000	559.5	559.9	560.4	561.0	562.1
UPPER ATK DATA 0514010053 HOLLUMAH TABLE 10 CONT	DENSTTY S GMZCUNIC METER	262.2 262.2	549.9	243.0	231.6	226.2	216.7	212.1	207.0	203.2	106.9	190.6	186.5	182.6	170.4	174.4	166.1	162.5	150.9	155.5	152.1	140.0	142.1	130.0	135.4	151.8		122.2	119.2	110.1	113.0	107.1	104.2
J	rel.Hum. Percent																																
4126.59 FEET MSL 0630 MRS MST 3	TEMPERATURE AIR UEMPOINT DEGREES CENTIGRADE	-57.3	-57.2	-57.0	-56.4	4.05.	-57.5	-58.1	-58.6	159.2	-57.8	-61.1	-61.8	-62.4	-62.7	-63.0	-63.2	-63.6	h•+9-	-65.0	65.6	-60-A	-67.0	-67.0	0-79-	9-191	5.99-	5.99-	-60.9	9.99_	-60.2 -65.8	-65.4	-65.0
<b>.</b>	PRESSURE MILLIUARS DE	ri d		ų ç	-	٠.	134.1	6.	80	<b>.</b>	121.8				<b>.</b>	100.5		۲.	7	σ,	0 4	Ĭ	.1	•	• •	? -	Ŋ		9	8	67.1	٠,٠	. 6.3
STATION ALTITUDE 20 Feb. B2 Ascension no.	GEUMETRIC ALTITUDE MSL FEET	44000.0	45000.0	45500.0	46500.0	47000.0	40000.0	40500.0	9.00064	49500-0	50500.0	0.00010	51500.0	52000.0	25200.0	0.5000.0	54000.0	54500.0	5500000	55500.0	0.00000	57000.0	97500.0	58000·0	0.00585	0.000.00	0.0000	0.00009	61000.0	61500.0	02000.0	0.00000	0.3500.0

STATION ALTITUDE 4126.59 FELT MSL  20 FEB. 62  10 630 HKS MST  ASCLNSION NO. 53  GEOMETRIC PRESSURE TEMPERATURE REL.HIM. VENSITY SPLLLALITUDE  ALIITUDE  MSL FEET MILLIDARS DEGREES CENTIGRADE  METER KROIN	E6.59 FELT MSL D630 HKS MST TEMPERATURE REL.HIUM AIK DEWPOINT PERCENT DEGREES CENTIGRADE	OSINOI HOLLOHA TABLE 10 REL.HIM. DENSITY PERCENT GMZCHRI	GSINGINGSSINGLE INCLORANGE ABLE 10 Cont'c GMZCHRIC SOUR METER KNO	⊼2 ≤ Ω	by In but'd Spillu of Spillu Rriofs	ulkerflou s Deukersflou s	E OD 1	VEODETTL COUNDINATES 32.808055 LAT DEG 106.099055 LOR DEG 5PEED OF KNOTS REFRACTION
ARS DEGREES CENTIGRADE  B -64.5	DEGREES CENTIGRADE -64.5		NE I	ER 101.5 98.9		DEUKELSCIN)	KN015 8.9 5.6	HEFHACT 1011 1.000023 1.000022
2 4	3. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.			90.00		70.07	5.7	1.000022
·	0.00			92.1		0.70	F + 1	1.000021
52.4 -63.8	164.0 3.46.1			87.1	565.7	10.01	n e0	1.000019
	-62.7			84.6		±0.1±1	υ. Β.	6100001
49.9 -61.0	-61.9			80.2	2000	100.1	8.6 6.6	1.000018
s.	-62.1			70.4		1.9.1	8.5	1.000017
	162.3			76.5	565.8	1.77.1	9.0	1.000017
1.034 1.44	1994			7.7.8	00000	7.007		1.00001
	-61.5			70.9		0.822 228.0	4.1	1.000016
0	6.09-			69.0		0.002	2 : 0 :	1.000015
41.0 -60.3	-60.3			65.3	564.1	2.0.2	4	1.000015
39.1 -59.1 38.1 -58.5	159•1 158•5			63.6	569.9	4.0.√ 0.√0.≤	3.9	1.000014
Ņ	-58.3			4.04		7.027	3.7	1.000013
ي د ت	-58.2			56.9	571.2	d-01.2	7.5	1.000013
34.6 -58.0	155.E			50.1		195.5	3.8	1.000012
80	-5 <u>8</u> .6			54.6		106.3	*	1.000012
35.0 -57.9	157.9			52.4	571.0 571.7	1/0./	^ ±	1.000012
S.	-57.7			50.9		1.19.9	4.5	1.00001
٠,	-57.7			7 · 6 ·		1.6.1 2.4.	; ;	1.000011
۰,	15/00			ָרָי מיי		7.671	7 0	1100001
٠ •	15/02			7:0		103.0	7.0	1100001
27.9 -57.2	15/11			45.1	572.4	141.5	2.7	1.000010
	-57.1			44.0		102.5	3.3	1.000010
•	-57.0			6.21		100.	a. M	1.00001
٠ •	-56.9			Λ·Ι +		5-11T	S .	1.000009
<b>.</b>	<b>-56.8</b>			O :		\$ . \$ . \$ . \$ . \$		1.000000
<b>.</b>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			3,4	9.575	3		6000000
24.66 154.55	1.00 to 1.00 t			37.7		2007		1.000003

4156.59 FELI MSL  46.30 IRS MSI  3  TP  RE TEMPERATURE REL. HUM. AIR UEWPOINT PERCENT
CLNT16RADE

	MAIIDATORY LEVELS	SEOUT LES CONTRACTOR
30511	Contacto	
20 FEB. 15 0630 HRS MST	HOLLOMAIN	32.codos LAI DEG
SCFNS10N NO. 53		106.09365 LON DEG
	TAB! C 11	

_																												
ATA Spero	KN01S	15.4	24.0	11.3	10.1	11.2	۶.6	10.5	10.1	2+.2	40.1	1.00	51.0	45.0	14.1	12.9	7.8	29.8	11.6	15.9	17.0	1.2	7.0	4.2	5.5	3.6	4.5	4.2
Alan pala	הבפונרבי זמון הבפונרבי נמון	350.0		1.5.1				54.0			59.0											344.0	154.0	240.3	175.5	110.7	41.2	114.9
HEL . HUM.	LIGGE	40.	**	4.3.	56.	30.	30.	54.	35.	24.	19.	20.																
TEMPERATURE P	DEGREES CENTIGRADE	.2.1	-2.7	1,4-	-15.0	-1.5.6	-17.0	-18.0	-28.9	-37.5	3.44-	-48.0																
•	DEGREES	10.9	0.6	6.5	4.2	-1.0	-5.6	-11.0	-16.4	-22.3	-28.3	-36.2	8.44-	-50.5	-53.0	-55.7	-56.9	-59.1	-63.2	-67.0	6.99-	-64.3	-61.7	-59.7	-57.6	-56.7	-50.5	-51.3
OPOTENTIAL	FEET	5019.	6674.	.6148	10271.	12230.	14306.	16524.	18901.	21472.	24281.	27373.	30818.	34764.	39537.	42340.	45544	49325.	53858.	58308.	60954.	64028.	67690.	72227	78171.	81955.	86684.	92818.
PRESSURE GEUPOTENTIAL	MILLIBAKS	0.058	900.0	750.0	700.0	€50.0	0.009	550.0	500.0	450.0	400.0	350.0	300.0	250.0	200.0	175.0	150.0	125.0	100.0	80.0	70.0	0.09	50·0	40.0	30.0	55.0	20.0	15.0

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE NAS USED IN THE INTERPOLATION.

		SIGHIFICAUT LE
STATION ALTITUDE 4051.00 FEET MSL	4051.00 FEET MSL	05100300
20 FEB. 82	0745 HRS MST	JALLEN
ASCENSION 110.	7	TABLE

٠ ٢ ٢		
	0510030003	JALLEN

0E0DL11C COONULIANES 33.10/12 LAT DE0 106.49511 LOH DEG

TABLE 12

PKESSURE	GFOMETRIC	TERIPE	TEMPERATURE	Kelessium.
MILLIBARS	_	DEGREES	CENTIONALE	ורענדא
	4051.0	5.2	-1.5	62.0
871.3	4369.2	10.3	-1.1	43.0
æ	4573.8	10.1	-2.2	42.0
_	5044.4	<b>6.</b> 5	0.5-	45.0
	6917.8	6.5	5.41	7.47
_	8052.0	<b>6.</b> 2	0.7-	58.0
6	90U6	4.1	-10.3	34.0
c	10263.5	1.1	-13.7	32.0
643.6	12469•1	-2•4	-14.7	38.0
621.0	13398.8	-4.1	-17.9	33.0
2	14104.1	1.5-	-10.5	34.0
584.0	15159.2	-7.7	-17.6	0 • 1; 5
8.	16612.4	-10.5	7-07-	75.0
c	18439.9	-15.7	-31.2	25.0
_	20838.6	-20.1	3.45-	26.0
v	23234•7	-24.4	-58.7	0.52
0	24312.1	-27.4	<b>た・0キー</b>	20.0
388.2	25018.7	-50-5	8.14-	28.0
374.0	25891•8	-31.0	9•0٢-	90.00
, M	27475.6	-34.4	-45.b	43.0

STALLON ALTITUDE	#	051.00 FEET MSL	T MSL		UPFER AIR CAL	C 1 1 A		vt.00c.110	OFODELLE COUNDINALES
20 FEB. 82 ASCENSION NO	7	0745 HRS MST	HST.		JALLENI TARI F 13			33.	33.10/12 LAT UEG
					יינור ז				
GF UNE TRIC	PRESSURE	1EMP	TEMPEKATURE	REL.HUM.	OFHSITY	SPLEU OF	MING JAIL	¥	INCLX
ALIITUDE MSL FEET	HILLIUARS	AIR DEGREES	DEWPOINT CENTICKADE	PERCLUT	GHZCUPIC MLTCR	50014D 81401S	U. O. C. C. S. C. S. C.	NOTE:	OF NEF HAC TION
4051.0	881.6	5.2	-1.5	62.0	1160.0	7.050	•	0.	1.000272
0.0044		2.01	. 0	40.4	1065.8		7.17	• •	1.000202
500000	851.4		6.2	0.07	1047.0		5.01	1.2	1.000257
5500•0		8.5		42.5	1031.4		7.01	1.9	1.000252
0.0009		7.8	0.1/-	43.0	1015.2		13.5	•	1.000248
0.0009		7.1	サ・カー	43.6	7.600		1.50	1.9	1.000244
7000.0		6+5	0.5-	43.6	483.2		ر۰۰/	1.9	1.000239
7500.0		6.3	6•5-	6.04	7.65.7		41.9	1.9	1.000234
0.0008		6•2	6-9-	38.3	948.5	_	3.1.0	4.1	1.000229
0.0058		5.2	-8.6	36.1	934.5	c.050 0	349.0	7.0	1.0002.4
9.0006		4.1	-10.3	34.0	921.0		331.00	2.6	1.000219
9500.0		2.9	-11.7	33.2	997.9	7.740	2.5.0	11.0	1.000215
10000.0		1.7	-13.0	32.4	6.464		35,500	11.9	1.000211
10500.0		.7	-13.8	32.6	H31.4	1.042.1	3:11.1	10.8	1.000207
		1	-14.0	34 • 0	A67.5	5.44.0	349.0	<b>h•6</b>	1.000204
0.00511		6.1	-14.2	35.4	853.4	2.640	3+0.0	6.0	1.000200
12000.0		-1.7	-14.5	36.7	839.8		3+0+6	4.8	1.000197
12500.0		-2.5	-14.8	37.8	820.4	_	3.6.6.7	3.3	1.000194
13000.0		13.4	16	35.1	813.5		350.9	3.∠	1.000190
13500.0		Z•h-	-18.0	33.1	ციმაი		7.0	3.9	1.000180
14000.0		-2.0	-18.4	33.9	787.4	_	5.1	5.0	1.000103
14500.0		-6.1	-18.1	37.8	775.5		4.0	5.9	1.000101
15000•0		-7.3	-17.8	42.5	764.0		41.4	6.5	1.000178
15500.0		7.8-	-10.6	39.5	752.5		6.00	7.8	1.0001/5
10000.0		5.6-	-55.6	33.0	3.00.7		7	8 · 6	1.0001/0
10500.0		-10.3	N.	26.5	720.8		a•n≠ .	12.3	1.000100
17000.0		-11.	-27.4	25.0	717.5		2.70		1.000163
0.000/1		-12.5	123.4	0.62	**000		<b>0</b> • C · .		101001
18000.0		-13.	1-29.4	23.0	3.00 a		2 5	11.	1.000138
0.00007		9.4[-	100-	0.62	9.48G		1.70	1.71	1.000155
19000.0		-15.9	-51-3	25.1	674.2	_	<b>3.</b> 70.	17.6	1.000153
19500.0		-17.1	-32.2	25.3	9.099	3	ລ : ເດີ	7.4	1.000150
20000.0		-18.2	-33.1	25.6	6.53.1		30.00	•	1.000148
20500.0		-19.3	M)	25.8	8.249		n•00	18.8	•0001
<1000 <b>0.</b> 0		-50.4	-34.9	55.9	632.5	ď	0./0	21.7	1.000143
21500.0		-21.3	*7	25.7	•	υlα	5/1	25.2	1.000140
0.00077		-25.5	36.	25.5	611.2	-	1.70	•	•
22500.0		-23.1	137.4	25.3	5.00a	٥.	3.6.7	•	ე.
< 3000.0	422.0	-24.0	-58.5	70.7	/ • 0pc		7.20	38.7	1.000153
•	413.9	-25.1	-39.3	25.2	5.1.C	013.0	0.00	41.2	1.000151

02.0[E] [C COURDINATES 03.10712 LAT UEG 100.49511 LON UEG	IFLLX Or NLFRACTION	1.000129 1.000127 1.000124 1.000123 1.000119 1.000119
JUD 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	35	44.2 44.2 47.2 47.2 18.7
	THE CITOR DATA	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
۸۱۸ ز ont'd	PLEU OF SUDIAD KINOTS	011.8 010.2 008.0 007.3 000.0
HPPER AIR DAIA OSIDGESOOO7 JALLER TABLE 13 Cont'd	REL.HUM. UFUSITY SPLED UP PERCENT GAZCUNIC SOUND METER KNOTS	572.4 563.5 554.0 554.0 545.2 536.9 520.8
5 -	REL.HUM. PERCENT	25.7 26.5 27.9 43.4 55.1 46.9
T MSL MST	PRESSURE TEMPERATURE AIR DEMPOINT MILLIDARS DEGREES CENTIGRADE	140.3 141.3 141.3 141.3 141.3 143.6 143.0
4051.00 FFET MSL 0745 HRS MST 7	TENHY AIK DEGREES	-26.5 -27.9 -29.2 -30.2 -31.2 -32.3
	PRESSURE MILLIBARS	405.3 390.8 380.5 580.3 576.3 364.3
STATION ALTITUDE 20 PER• H2 ASCENSION NO•	GEUNETRIC AL FITUDE MSL FEET	24000.0 24500.0 25100.0 25000.0 26000.0 20500.0

4051.00 FEET MSL 0745 HRS MST 7	I MSL	A.F.	MAHDATORY LEVELS HSTHOSOUDY JANLEH TABLE 14	0 / 0 /		√ + + + + + + + + + + + + + + + + + + +
PRESSURE GEOPOTENTIAL	: OPOTENTIA	L TEMPE	TEMPERATURE R DEMPOSIT	REL • HUM• PERCEINT	JIND DATA	A I A SPEED
MILLIBAKS	FELT	DEGREES (	DEGREES CENTISRADE		LEUKLES (TN)	
850.0	5041.	5.6	-3.0	42.	10.4	1.3
800.0	6683.	6.8	J. #-	* 7 7	4.18	7.7
750.n	8419.	5.4	-B.	36.	349.0	s .
700.0	10254.	1.1	-13.7	32.	352•4	11.4
650.0	12198.	-2.0	-14.0	37.	347.5	71
0.009	14272.	-5.6	-13.5	36.		) ° C
550.0	16491	-10.3	-25.9	20.	/•0÷	16.0
500.0	18875.	-15.7	-31.2	25.	52.	, , , , , , , , , , , , , , , , , , ,
450.0	21453.	-21.3	-35.7	56•	1./6	D • 7 × ×
0.004	24273	4.7.5-	6.04-	26.	63.1	5.1.
350.0	27582.	£ • 4€ −	45.4	43.		

HE ELLIUM. PERCEGIT	25.00	
TFAPERATUAL IK DEWPOINI REES CENTIGKADE	# 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
TFAPE Alk DEGREES	10000000000000000000000000000000000000	
GFONETAIC ALTITUDE MSL FEET		37491.4 39621.3 4964.0 43048.6 43729.3 49228.2 54055.3 55811.6 57125.0
PRESSUME MILLIBARS		

SIGNIF TCANT LEVEL JAIA 0510100007

UEGUETIL, COUNUINALES 32-40175 LAT DEG 106-31232 LON DEG

TABLE 15 Cont'd

TEMPLRATURE AIR DEWPUINI DEGREES CENTIGRADE

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FELT

66021.3 71221.6 75053.2 78624.7 87187.1 92244.8

50.0 42.8 35.6 30.0 20.0 15.8

-58.3 -58.3 -57.1 -50.4 -50.4

KEL.JUM. PEKCLIAT

-62.7

24

A state of the state of

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	UPPLR AIR DAIA	
STATION ALITIUDE 4051.37 FEET WISL	0.01010007	OF CDE LOUNDINATES
20 FEB. 82 0800 HRS MST	LC-37	32.40175 LAT DL
ASCENSION NO. 7	TABLE 16	106-31232 LON UL
The state of the s		The second secon

STATION ALTITUDE	TITUDE 4	051-37 FEET HSL	FT MSL		00001010007	70		OFCOLTI	OF COUNTINATES
ASCENSION NO	۲	S 111 11000	Ē		TABLE 16			106.	106-31232 LON DEG
<b>1</b>									
GEOME TRIC	PRESSURE	TEMF	Ň	H. L. HUM.	UENSITY	Syret OF	WINC UATA	7.	IGULA
AL 7 I TUDE		AIR		PERCENT	SM/CUBIC	SOUND	INCLION	SPEED	5
MSL FEET	MILLIUARS	DEGREES	Ų		METER	A110 15	IN GREES (14)	NNOT'S	REF RACTION
4051.4	882.9	3.5	0•	78.0	1108.9	0440	0.001	1.0	1.000277
4500.0	868.4	8.5	. T		1071.2		3500	3.0	1.000206
0.0003	852.6	0.6		48.3	1049.5		5.50.5		1.000261
1500.0	83/0	0-6	0.1	46.1	1030.6		156.5	F	1.0000
	200	4 4	1	• 4			4.60		0.2000
0.0000	801.7	7.7	C • C • I	0 0	2.4101	0.400	2.44	10.4	1.00024
0.00ca	2000		֓֞֞֜֜֜֝֓֓֓֓֓֓֞֜֜֜֝֓֓֓֓֓֓֓֓֞֜֜֝֓֡֓֓֡֓֓֞֝֓֡֓֞֜֝֡֓֡֓֜֝֡֓֡֓֜֝֡֡֡֓֜֝֡֓֡֓֡֡֝֝֡֓֡֡֜֝֡֡֡֝֡֡֡	600	7.666	6220	900	0 .	7.7000.1
0.0007	6.161	•	٠,	3.00	h • 106		7.000	C•21	1.000236
n.one/	***	ລ ( ດ ເ	211	\$ 000 cm	0.606	C.100	6.000	0.67	1.000533
0.0000	1.69,	2.5	6.6	51.9	6.266		3+C	6.7	1.000235
6500.0	744.9	<b>†</b>	-2.5	60.5	937.6		345.1	16.5	1.000234
90006	735.0	3.4	-3.2	61.9	923.5		346.0	•	1.000230
4500.0	721.3	2.4	-3.8	63.2	90606	647.5	1.465	11.9	1.000226
10000.0	707.9	1.5	-4.5	64.5	895.9		7.5	10.0	1.000222
10500.0	694.7	1.1	-10.0	43.3	881.1		5.47	9.5	1.000211
11000.0	681.7	٠.	-12.5	37.5	867.2	1.440	37.4	10.9	1.000205
11500.0	668.8	9•-	-15.9	38.7	853.8	645.5	イ・ナナ	12.9	1.000202
12000.0	656.2	-1.4	-14.5	35.8	840.5	047.0	40.0	14.6	1.000197
12500.0	643.7	-2.6	-14.3	39.9	827.9	_	0.74	15.6	1.000195
13000.0	631.5	-4.0	-13.6	46.9	810.2		610	15.4	1.000193
13500.0	619.4	-5°4	-13.2	53.8	804.7		53.c	14.9	1.000191
14000.0	607.5	-6.3	-16.8	43.0	792.4		25.to	13.9	1.000185
14500.0	595.8	-7.2	-20.9	32.4	779.B	635.6	ソ・チャ	13.6	1.000180
15000.0	584.3	-7.9	-23.1	28.3	767.0		3.44	13.7	1.000176
15500.0	574.9	-9.0	-23.2	30.4	755.1		47.3	15.0	1.000173
16000.0	561.8	-10.5	-10.1	1,7.9	743.4	-	n•0n	16.4	1.000173
10500.0		-11.5	-19.6	8.64	731.8		0.10	18.2	1.000170
17000.0		-12.2	-55.0	43.7	720.2		53.2	20.0	1.000100
17500.0		-13.2	-24.8	36.7	708.7		57.9	20.8	1.000102
18000.0	210.7	-14.2	-28.0	29.8	697.5		62.3	21.7	1.000159
18500.0		-15.2	-31.6	22.8	68p.4	8.520	7.10	21.6	1.000155
19000.0		-16.2	-35.5	16.9	675.5	_	2.5%	21.5	1.000152
19500.0		-17.4	-36.9	16.4	665.0		1300	50.9	1.000150
20000·ū		-18.6	-38.2	٠	654.7	021.6	7.5.3	20.5	1.000147
20500.0	468.8	-19.8	-3465	•	9.449	_	13.0	21.3	1.000145
21000.0	459.3	-21.1	-40.8	15.0	634.8		73.1	22.1	1.000142
<1500·0	6.654	-22.5	-45.0	15.0	625.3	010.0	9.6.9	22.1	1.000140
22000.0	440.7	124.0	-43.1	15.0	616.0	015.0	00.1	22.2	1.000138
55200·ū	_	•	-43.9	15.0	605.5	613.4	.•I∘	23.9	٠Ō
3000	22	-25.8	L.447	15.0	•	614.7	٠٠/٩	•	1.000133
23500.0	415.8	-26.7	# · C # -	15.0	584.9	611.c	7.50	30.6	1.000151

	INLEX OF HEFRACTION	1.000129	1.000122	1.000116	1.000112	1.000108	1.000103	1.000101	1.000097	1.000096	1.000094	1.000000	1.000007	1.000085	1.600061	1.000079	1.000075	1.000074		1.000071	1.000008	1.000006	1.000005	1.000003	1.000000	1.000059
JEODE T1, 32. 106.	1A SPEEU KNOTS	36.9	469.4 40.0	56.5	50.00 58.00	57.0	55.2	59.5	62.7	59.1	47.5	39.6	24.5	20.6	18.1	18.8	15.b	14.5	13.2	10.0	9.1	6.5	10	10.8	12.8	13.8
	R THO DATA	50.1 50.6 58.1	6.00 7.00 2.00	07.4 50.4	9.69	2.60 20.00	51.6	1.02	3.84 3.00	51.7	5.4.0 5.4.0	50.4	6-16	/•05 5	19.7	3 3 3 3	Q•Q	<b>)•9</b>	<b>3</b> • • • • • • • • • • • • • • • • • • •	301.4	324.5	312.3	V-182	7.4.0	251.0	1.44.2
16 Cont'd	SPLEU OF SOUND RIOIS	610.5 609.1	2000	5001.44	590.5	590.3	592.0	591.1	587.4	1.085	584.4			580.9		580.7	580.2	579.5	576.5	577.6	577.0	577.5	577.9	578.4	27.5	570.1
UPPLR AIN DATA 051013U00/ LC-37 TABLE 16 CON	DENSITY S GM/CUBIC METER	574.9 565.3 556.3	547.4	520.6 520.6	503.5	486.7	469.0	451.4	4436.2	428.8	471.0	406.1	388.7	380.0	363.3	346.0	339.0	332.1	325.4	311.6	304.7	297.1	68	272.6	268.8	26.0
-	REL.HUM. PERCENT	15.0 15.0 15.0	15.0	10.3**	6 . 5 * *	2.6**	•																			
7 .₁SL ⊮>1	TEMPERATURE K DEWPOINT EES CENTIGRADE	-46.2 -47.1 -48.1	-49.2	- 10K*4	160.8	-60.2																				
4051+37 FEFT JSL 080n HRS MS1	TEMP AIK DEGREES	-27.6 -28.7 -30.0	31.5	134.9	-37.3	-39.7	-41.6	-42.9	144.6	-u6.8	140.0	-50.0	-50.7	-50.B	-51.2	150.9	-51.4	-52.0	7.25	13.0	-53.8	-53.4	100 m	150	10.50	-52.5
1 UDE	PRES <sub>J</sub> URL MILLI <sub>B</sub> ARS	405.2 390.7 388.3	380.1	356 1 356 1 356 1	340.8		312.1		285.0	278.6	260.1	260•1 254•1	248.2	242.5	231.5	220.9	215.8	210.8	700×	196.5	191.9	187.4		176.8		
STATION ALITIUDE 20 FEB. 82 ASLENSION NO.	GEOGRETRIC ALTITUDE MSL FEET	24000 • C 24500 • C 25000 • D	25500.0 20000.0	27000.0	24500.0	29000.0	30500.0	31000.0	32000•0	32500.0	33500•0	34500•0	35000.0	35500•0	30200	37500.0	38000.9	38500.0	0.00066	40000.0	40500.0	41000-0	41500.0	0.00074	43000+0	3500.

\*\* AT LEAST ONE ASSUMED RELATIVE HIMIDITY VALUE NAS USE IN THE INTERPOLATION

SECULTIC COURLINATES 52-40175 LAT DEG 106-31232 LON DEG	
υΡΡΕΚ ΑΙΚ Β.ΙΑ 051015000, LC-37 TABLE 16 Cont'd	Tourse of the Control
STATION ALITIVDE 4051.37 FEET 1.5L 20 FER. N.2 0867 HRS N.51 ASCENSION 1.0. 7	
STATION ALIII 20 FER. H2 ASLENSION HO.	SELECTION OF SELECTION

INULX	NLFKAC110N	1.000057	1.000056	1.000055	1.000054	1.00003	1.000052	1.00001	1.000050	1.000049	1.000049	1.000047	1.000046	1.000045	1.00004	1.000043	1.00042	1.000041	1.000040	1.000039	1.000038	1.000037	1.000027	1.000056	1.000035	1.000654	1.000033		1.00001	1.000031	1.000030	1.000069	1.000028	1.000028	1.000027	1.000024	1.000026	1.000025	1.000025	1.00004	1.000023
1,	SPEEU NIOTS	14.3	14.8	16.6	18.7	20.9	23.2	25.6	26.8	27.8	27.4	25.9	25.0	24.3	24.1	22.0	19.7	17.2	14 · 4	12.2	11.8	11.5	15.1	13.2	14.2	14.1	14.0	13.7	13.4	13.1	13.0	13.0	11.8	10.5	9.1	7.8	6•9	4.9	6.2	2.5	S•0
אווט טאוא	LIRCTION . EOREESTIN)	243.2	241.5	0.44%	247.7	250•c	24.0	U.7CZ	4.967	258.0	202.0	4.11.7	2002	203.6	298.0	290.9	4.06%	2002	242.2	1112	277.1	711.1	278.0	2002	201.0	7.0/7	275.5	7.017	4.6/7	7.17.7	2/0.4	275.5	7.1.0	2/9.0	200.0	247.9	313.6	344.7	557.7	٠.	か・かり
Splen of	SUUND KNOTS	576.0	577.4	570.7	570.0	575.1	574.1	573.0	572.0	570.9	569.9	568.9	560.0	567.3	ეგი•6	560.0	565.3	564.6	563.9	563.2	562.0	6.195	20199	9.099			561.5	563.0		562.7		562.1	561.8	561.6	561.3	1.199	561.2	561.3	561.6	564.1	562.4
	GN/CUBIC	257.5	252.1	246.B	241.7	230.7	231.9	227.2	222.6	218.2	213.8	209.5	205.0	200.5	1961	191.8	187.6	183.5	179.5	175.5	171.7	167.9	164.2	160.5	156.9	153.0	148.4	144.0	140.4	137.2	134.0	130.8	127.7	124.7	121.7	116.9	115.9	113.0	110.1	107.3	104.5
REL.HUM.	PERCENT																																								
TEMPERATURE	DEMPOINT CENTIGRADE																																								
Σ	AIK Degrees	-53.0	153.05	-54.0	-54.6	-55.2	-56.0	-56.8	-47.6	-58.4	-59.5	-59.9	9.09-	-61.1	-61.6	-62.1	-62.6	-63.1	-63.6	-64.1	<b>-</b> 64.6	- <sub>6</sub> 5•1	-65.6	-66.1	9.99-	-66.5	165.4	-64.3	2.49-	-64.5	164.8	-65.0	-65.2	14594	765.5	7.69-	-65.7	-6504	-65.2	-65.0	-64.8
PRESSURE	MILLIDARS	162.7	150.9	155.2	151.6	140.1	144.6	141.1	137.8	134.5	131.3	128.2	125.1	122.1	119.1	110.2	113.4	110.6	•	105.3	102.8	100.3	97.8	95.4	95.0	2006					40.1					70.8	64.	•/9	65.	သ	64.5
GEOMETRIC	AL 11TUDE NSL FELT	44000.0	44500.0	45000-6	45500.0	40000.0	46500.C	47000.0	47500.0	400000	48500.0	4.9000.0	49500.0	500000	50500.0	2 51000.0		0.00025	52500•0	0.00055	53500.0	24000•3	54500.0	55000.3	55500.0	56000.0	50500·0	57000.0	57500.0	2200025	28500.0	59000.0	59500.0	0.00009	0.00500	61000.C	01500.0	02000°C	U2500.0	65000.0	u3500•0

STATION ALITUDE	IITUDE 4	051.37 FELT MSL 080n HRS MS1	•	UPPLR AIR DATA 0510180007 LC-37	UnTA 07		vE00ETI 32.	•
ASCENSION NO	•02			TABLE 16	Cont'd		106.	106.31232 LUN DEG
GE UNE TRIC	PRESSURE	TEMPERATURE	REL.HUM.	DENSITY GM/CURIC	SPEEU OF	IND DATA	fa Speri	INCEX
MSL FEET	MILLIUARS	DEGREES C			NIVOIS	GREES (IN)	NHOTS	KLFKAC110W
0.00049	61.0	5.4.5		101.9	262.1	3.60	5.6	1.000623
64200•0	54.5	-64.3		99.3	563.0	13.3	5.4	1.000022
62000.0	58.1	-64.1		7.96	565.3	2.80	ر د د	1.600022
0.00550	20.00	-63·8		94.5		110.0	3.1	1.00002
0.00000	52.0	163.6		6.16		7.701	? • ° °	1.0000
0.00000	50.0	160.4		87.2	20405	7.07	 	1.000020
67500.0	51.3	-62.9		85.0		207.0	8.6	1.000019
64000.0	50.1	-62.7		85.9		206.3	7.8	1.000018
68500.0	5.84	-62.0		80.6	560.0	205.1	5.8	1.000018
0.00060	47.7	-61.4		76.4		202.0	8.9	1.000017
€9500.0		7.09-		76.3		S*06T	2.7	1.000017
70000.0		0.09-		74.2		162.4	1.8	1.000017
73.000	0.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		7.52		160.4	æ ~	1.000016
71500	7 0 0	0.00		7 · 0 · 7		0.001	0 r	1.000015
0.00017	7.7	0 m		99		7.00	) -	1.00001
725000-0	41.0	0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		65.4	0.170	2016	, C	1.00001
73000.0		17B . U		63.7		2.72	0 0	1.000014
73500.0		100 m		62.2		98.5	9.9	1.000014
74000.0	37.4	-58+3		60.7		101.7	6.1	1.000014
74500.r		-58.3		59.3		105.9	ა ა	1.000013
75000.0	35.7			57.9		5.011	0 ° 0	1.000013
7,000.0		T • 20 % •		200		169.	\ • • • •	1.000013
765000	34.0			53.7	5/1/5	194.1	3. C	1 - 000012
77000.0	32.4	-57.6		52.4		7. and	0.6	1.000012
77500.0	31.7	-57.5		51.1		203.1	1.6	1.00001
78000.0	30.9	-57.3		グ・グロ	572.3	105.2	γ.	1.000011
78500.0	30.2	-57.1		48.7		ر <b>،</b> در	۲.	1.000011
79000.0	29.5	-56.9		S*~+		C12.	<b>.</b>	1.000011
79500.0	28.8	-:6.7		•		215.3	6•	1.000010
80000	28.1	-56.5		•		213.5	1.3	1.900010
80500.0	27.5	-56.3		T • 11 1		43.5	89	1.000010
0.00018	26.8	-56.1		0.54		5°5°	2.5	1.000010
0.00019	20.2	-55.9		42.0	-	01.1	۲•4 ر	1.000009
82000.0	ۀ ،	1 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		0.14		5/-1	۵. د	1.000009
82500	25.0	1 1 0 1 1 0 1 1 0 1		0.0	574.8	0 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 4	3.5	1.00000
3500		1 C		0.446			14.4	1.00000
	•			)		) !	r • r •	0000001

~£00£11, COONDINATES 52.4∪175 LAT DEG 1∪6.51252 LON LEG	INULX OF RLFRACTION	1.000008	1.000008	1.000008	1.000007	1.900007	1.000007	1.000007	1.000007	1.000007	1.000000	1.000006	1.000006	1.000006	1.000000	1.000006	1.00000	1.000005	1.000005	1.000005
υΓ <i>υ</i> υς 11 32• 1υ6•	1A SPEED NROTS	13.4	11.4	6.6	8.3	6.7	5.3	4.3	4.6	5.9	5.9	3.3	<b>= +</b>	₽• <b>†</b>	6.3	7.3				
	"INC DATA	3.53 3.65 3.65	24.5	5 <b>6</b> •U	9•8¢	0.20	၁•႘၁	₩•8/	43.5	71200	4.5%	15.1	57.9	76.5	70.1	46.4				
ont'd	SPEEU OF SUUID KNOTS	575.7	5,070	570.0	576.8	577.1	577.4	577.8	570.1	570.5	578.9	579.3	579.1	580.1	580.5	580.9	581.2	581.4	281.4	4•185
UPPLE AIN UNIN 0510760007 LC-37 TABLE 16 Cont'd	PENSITY GM/CURIC MLTER	37.1	35.3	34.5	33.6	32.8	32.0	31.2	30.5	29.7	29.0	26.3	27.6	56.9	20.3	25.b	25.0	54.45	23.9	23.3
_	HEL HUM. PERCENT																			
4051.37 FFET SL 080n HRS MST	RE TEMPERATUME AIK DEWPOINT RS DEGNEES CLITIGNADE		000	-54.1	-53.9	-53.7	-53.5	-53.2	-52.9	-52•6	-52.3	-52.0	-51.7	-51•4	-51.1	-50.8	-50.5	-50.4	-50.4	-FO • 4
111UDE 110.	PRESSURE MILLIDARS DI	~ ~	22.2	_	<b>.</b>		2002									16.4	0	9	m	<b>6</b>
STATION ALTITUDE 20 FEB. E2 ASCENSION NO.	GEUNLTRIC ALTITUDE MSL FEET	84000.0	0.00000	3.00568	ગ•000oસ	ae200 • c	67000.0	87500.0	9:000as	89200.0	89000.0	89500.0	0 <b>00</b> 006	90500	0.00016	91500.0	92000.0	92500.0	92000.6	93500.0

MAISTATORY LEVELS	0510180007	LC-37	TABLE 17
Ā		٦.	

0600071, 000001NATES 32-40175 LAT DEG 100-31232 LUI: DEG

PRESSURE GLOPOTENTIAL	ορΟΤΕΩΤΤΑΙ		TEMPELATURE R	NLL . HUM.	ATIO LAIA	AIA See D
MILLIGARS	FEET	Ņ	CENT 16PAUE	יייי אינייין א	UE 6(4.1.5 ( Tid)	
A50.0	5078.	9.1	-1.0	47.	350.3	7.1
บ∙008	6722.	7.2	-6.5	37.	555.3	10.1
75C.n	8456.	4.5	-2.5	•09	340.1	10.7
700.0	10289.	σ.	<b>-6.</b> b	57.	17.0	9.2
450.r	12235.	-1.9	-14.8	36.	45.4	10.4
600،0	14303.	6.9-	-20.1	34.	50.6	13.5
550.n	16514.	-11.3	-19.6	50.	51.9	10.3
200.0	18892.	-16.0	-35.3	17.	71.3	21.5
450•n	21464.	-22.5	-41.9	15.	2.69	7007
4000	24267.	-28.2	-46.7	15.	56.3	40.7
350.0	27360.	-35.8	-57.3	¥*•5	58.3	20.0
300.0	30818.	-42.6			0.51	54.9
550.0	34772.	-50.6			57.5	27.0
700°	39527.	-53.5			357.6	11.2
175.0	42348.	-52.4			262.7	11.8
150.0	45607.	-54.8			248.6	19.6
125.0	49380.	9.09-			281.8	75.0
100.1	53889.	-65.2			277.8	11.5
80.0	58345.	-64.8			276.3	15.0
70·0	61012.	-65.8			303.4	7.4
0.09	• 760 79	4.49-			67.4	5•3
20.0	67766	-62.7			200-3	7.8
t•0+	72341.	-58.3			97.6	5.2
30.0	78290.	-57.1			35.3	٦.
25.0	82090.	-55.4			24.8	0.7
20.0	86731.	-53.4			71.1	٥ <b>٠</b> ς
15.0	92905.	-50.4				

\*\* AT LEAST ONE ASSUMED RELATIVE HUNIDITY VALUE "AS USEL IN THE INTERPOLATION.

KEL . HUM. PEKCERT	34.0 34.0 34.0 34.0 34.0 34.0 34.0 34.0
TEMPERATURE IR DEWPOIHI REES CENTIGHAUE	0.00
TEMPES AIR DEGREES	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
GEUMETRIC ALTITUDE MSL FEET	4051.0 4355.8 5081.4 6209.3 7179.5 8800.4 116308.6 115322.4 115322.4 14382.6 20929.7 20929.7 20929.6 25210.3 25944.1 29495.9 34945.9 34945.9 34945.9 34945.9 36530.1 4524.3 4524.3 4524.3 4527.2 63081.7 63081.7
PRESSUM <sub>L</sub> MILLIBAMS	382.5 857.6 815.6 815.6 815.6 740.8 740.8 599.1 599.1 599.1 750.0 370.0 121.2 106.7 106.7 106.7 106.7 106.7 106.7 106.7 106.7 106.7 106.7 106.7 106.7 106.7 106.7 106.7 106.7 106.7 106.7

SIGNIFICANT LEVEL UND 0510030000 JALLEN

νΕυυρίτις ευυλυτίλητης 33.1υ/12 LAT UEG 105.49511 LUN UEG

TABLE 18 Cont'd

TEMPERATURE AIR DEWPUINI DLGREES CENTIGRADE PRESSURE GFOMSTRI. ALTITUDE FILLIBARS MSC FEET

-51.4 -49.7 -51.4 -46.3 20.0 87099.0 15.8 92167.1 14.4 94190.5 13.2 96084.1 10.7 100703.8

KEL..IUM. PERCENT

32

STATION ALIITUDE 405; 20 Feb. 62 0 ASCENSION NO. 8	51.00 FEET S 091n HRS MST	FFET ASL IRS MST	051003000 JALLEN TABLE 19	OSTODSOUDO JALLEN TABLE 19	၁ <b>၁</b>		υΕΟυ <u>ι 11</u> 53. 106.	vEOULTI, COORDINATES 53.10712 LAT LEG 106.49511 LON DEG
PRESSURE MILLIBARS (	TEMPE AIR DEGREES (	TEMPERATURE IR DEWPOINT IEES CENTIGRADE	REGCENT	DEUSITY GMZCUBIC PLIER	SPEEJ OF SOUND KNOTS	JINC DAIN JINCCIION SI	SPEED NNOTS	INDEX OF REFRACTION
ιņ	14.2	-2.1	31.0	1067.6	1.199	J•00	7.0	1.000201
860.2	11.6	<b>†•</b> †-	32.2	1060.2		3.64	9.9	1.000257
Ŋ	10.9	8•4-	32.9	1045.5	2./50	37.0	გ•ე	1.000253
837.0	4.6	-5.8	33.0	1029.0		2.0.2	7.1	1.000248
821.8	3° E	6•9-	33.0	1015.0	654.3	1001	7.7	1.000244
806.8	4.9	-8.2	30.9	996.5		10.0	10.9	•
792.0	7.9	9•6−	27.3	980.4		0.61	14.6	
ئة. ا	7.2	-10.9	26.2	964.8		n•01	16.3	•
Ŋ.	1.9	-11.7	26.5	950.8			6.71	
749.1	2.0	-12.5	26.8	936.9		7.7	18.1	•
	-1 ( -5 (	-13.4	26.5	422.0		ດ :	17.6	
۰	ις. 10 · 10	-14.7	25.1	908.3	_	7.6	15.3	•
Ņ	5.6	-16.0	23.8	493.4		T•CT	11.9	•
695.0	1.9	-16.7	23.6	879.5		0.61	ก ค -	
, (	? •	100	5.7	* 646	_	2 T	7	1.000201
29690	•	1.01	20.9	0.000		0.0	) (d	• '
650.0	• • • •	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	26.1	40,08	0.00	2.7.0	יייי פר מייייי	
641.8	000	-19.7	25.7	813.5		4.20	6.3	•
618.9	7.4.0	-20.9	25.2	801.6		20.4	7.5	٠
608.0	-5•1	-19.9	29.9	789.5		9.67	0.6	•
590.4	-6.1	-18.3	37.3	2.777		1.97	10.1	1.000161
584•B	-7.3	-20.3	34•3	765.7	_	S-/2	11.0	•
573.5	-8.5	-22.5	31.2	754.4		3.00 :	12.1	1.000173
562.3	-9.7	h•h2-	28.7	743.1		# J	10.1	
551.5	2	-25.8	5/•4	7.167		K • 00	) • h [	٠
040	Ξ	27	26.1	7.9.6		3.04	16.0	•
25%.	2	3	24.8	1.80%		6.24	16.1	
519.3	13	-30.0	23.5	9.069		46.5	10.1	1.000158
509.1	9.41-	-31.5	25.2	685.7	020.5	45.0	15.7	1.000155
0.664		32	21.0	674.8		7.84	15.4	1.000152
489.0	_	-33.8	21.0	0.499		49.5	15.3	1.000150
472.2	_	-34.7	21.0	653.3	1 1026.7	V. 64	16.5	1.000147
463.5	-	-35.6	21.0	647.9		40.4	19.4	1.000145
460.1	6.61-	36	21.0	632.6		4.4.4	23.5	1.000142
450.7	-21.0	-37.5	21.0	622.7		21.1	29.0	1.000140
441.5	-52.5	4.4£-	21.2	612.9		7.40	33.1	1.000158
32.4	٠,	- 59.3	21.8	603.2	012.0	57.1	33.3	.00013
ئ. ن	9.44-	1.00.	22.4	503.	014.0	01.1	33.2	1.000153
414.6	0.0%-	6.04.	23.0	7.84°	0.210	⊃• <del>↑</del> ⊃	32.1	1.000151

STATION ALTITUDE	3	051.00 FE.TSL 0910 MRS 8.51	1 .SL 4.5.1	-	UPPLE AIM UNIA AS18030000 JALLEN	۵، ن مه		UE OUL T1.	UEOULTI, COUMUINATES 33-10712 LAT DEG
	<b>6</b> 0	•	•		6	Cont'd		106.	106-49511 LUN DEG
GEUMETRIC	PRESSURE	TEME	TEMPEKATURE	REL. HUM.	UENSITY	7	ATAU GILL	14	INUEX
ALTITUDE MSL FEET	HILLIUARS	AIR DE <sub>G</sub> RÉES	CENTISRADE	PERCEIN	METER	KI10TS	GREES (IN)	ALTO IS	REFRACTION
24000.0	400.1	-27.3	-41.8	23.6	575.3	610.9	2.40	34.1	1.000123
24500.0	397.6	-28.4	-41.5	27.0	566.0		1.50	38.3	1.000127
25000.0	389.3	-29.3	-39.5	37.5	550.1	4.0U0	4.50	41.6	1.000125
25500.0	381.1	-30-1	-30.6	38.4	546.1	_	. #C	6.44	1.000123
26000.0	373.0	-30.8	-41.8	33.0	530.2	ისი•ა	0.64 0.04	46.9	1.000120
26500.0	365.0	-32.1	-45.9	33.0	527.3		45.0	48.5	1.000114
27000.0	357.1	-33.3	0.11-	33.0	516.6		/ • Ç #	48.2	1.000110
27500.0	344.4	-34.5	-45.1	33.0	510.0	-	1.24	0.84	1.000114
28000.0	341.9	-35.7	-46.2	33.0	90100		C • C • :	8.7.	1.000112
78500.0	34.5	-37.0	-47.3	33.0	495.5		で・*** ****	46.9	1.0001
29000-0	327.3	-38.2	1 th 8 th	33.0	483.2		o•/+	\$ . S	1.000109
29500.0	320.2	-39.4	-49.5	32.9**	477.2		21.5	43.9	1.000107
30000.0	313.2	5.0 n	-53.9	21.7*	468.8		٠,٠٢٠ ١	42.3	1.000105
	306.3	-41.5	9.09-	10.4**	460.0		q•qq	41.9	1.000103
31000.0	299.5	-42.6			455.4		24°C	41.7	1.000101
	292.8	-43.4			D. C. D. D.	-	2.74	41.5	1.000099
32000.0	286.2	-14.5			432.4		7.0	42.2	1.0000.7
32500.0	279.8	-45.0			427.2	•	D•#7	44.5	1.0000%
33000.0	273.5	146.2			8°617	-	ລ•ຄເ ວ•ຄເ	47.1	1.00024
0.00000	267.5	/ • / th			0.014		1 · 0	* C**	1.00000
34000-0	20102	0.64					0.67	2.10	1600001
34500.0	0000	20.05			399.6	1.182	7 7 7	10.14	1.00005
35500.0	7 × × × × × × × × × × × × × × × × × × ×	-5.2.0			383.7		1 - 1	9	1.000005
35000.0	237.9	152.6			375,9		****	43.0	1.000004
36500.0	232.3	-53.9			369.2		J.1.	59.7	1.000062
37000.0	220.9	-55.5			362.7		45.1	36.7	1.000001
37509.0	221.5	-56.5			350.3		£.24	34.4	1.000079
38000.0	216.3	6.72-			350.0	571.0	2.54	31.7	1.000078
•	211.5	-59.5			343.9		37.0	27.3	1.000077
39000.0	2005	-58·3			334.5		J. 57	23.3	1.000074
39500.0	201.3	-57.4			325.0		5.2°	20.5	1.000012
400000	196.5	-56.5			315.5		7997	16.4	1.000070
40500.0	191.9	-54.8			306.2		۰۰ <b>۷</b>	11.5	1.000004
41000.0	187.4	1930			297.1		2007	9.1	1.000000
41500.0	183.0	4.67-			290.1		26765	12.2	1.000005
42000.6	170.8	-53.6			283.7		275.5	15.6	1.0000e3
42500.0	174.6	ક • • • • • • • • • • • • • • • • • • •			2,6,7		7 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C	15.7	1.000062
2000	C•0/1	152.9			1.602		0.102	1.01	1.000000
43200.0	166.6	152.0			763.4	576.2	6.162	14.1	1.000059

\*\* AT LEAST ONE ASSUMED REL TIVE HUNIDITY VALUE MAS UIL IN THE INTERPOLATION.

			UPPER AIM U.IA	۲.,			
STAITON AL		51.00 FELT "SL	n51003000	2		ULOUL TI	JEOULTIC COURDINATES
20 FEB. 82		091n HRS NST	JALLEN			.50	10/12 LA1 ULG
ASCENSION NO.	чо. в		TABLE 19 Cont'd	nt'd		106.	19511 LON DEG
GEOMETRIC PRESSURE	PHESSURE	TEMPERATUPE	PRESSURE TEMPERATURE RELABINA DEUSITY SPEED OF	PEEU OF	WIND DATA	14 00.00	Irac X
ACITIONE MSC FLE	MILLIUAKS	DEGREES CENTIGRADE	METER N	\$1001v	"CORLES (IN)	NOTS	HLF KAL 11014
44000.0		-53•4	257.9	5777-5	297.9	14.0	1.000057
9.00544	150.9	-53.9	252.4 570.8	570.0	290.0	14.6	1.000056
45000.0		4.4.	247.1	570.1	2,35.9	15.2	1 - 0 0 0 0 5
41,500.0		-0.5°	242.0	4,72,04	275.0	15.8	1.000004

SEOMETRIC	PRESSURE	TEMPERATURE	REL.HUM. DE ISITY	UF.ISITY	Stirke OF	MINU UATA	¥1	Ital
11110E		, IR	PERCENT	ON/CUBIL	Sotiati	,1Kr - 1 6.4	JPEED	5
MSL FLEI	MILLIOAMS	ŏ		METER	S10114	", LOKLES (1N)	NOTS	MLF KML T 1014
44000.0		-53.4		257.9	5777-5	6.142	14.0	1.000057
44500.0	150.9	-53.9		252.4	570.8	290.0	14.6	1.000056
•	155.2	4.451		247.1		2,75.9	15.2	1+00005
45500.0		-55.0		242.0	1 575.4	295.0	15.8	1.000004
400000	40	-55.6		237.0	9.476	245.0	16.4	1.000053
_	144.4	156.4		232.1	573.0	7.067	10.7	1.000052
	141.0	-57.1		227.4	572.0	27.62	17.0	1.600051
_		-5.7.9		222.7	-	0.667	16.9	1.000050
				216.2	570.6	2005	16.8	1.060049
46590.6	131.2	<b>+.69-4</b>		213.7	269.0	302.0	15.8	1.000048
49000.0	124.0	-60.1		209.4	564.0	4.405	14.7	1.000047
49500.0	125.0	P.60-9		205.1	26/06	30000	14.3	1.000040
500000		-61.6		200.9	9.095	365+9	14.3	1.000045
50500.0	119.1	-61.5		196.0	560.0	204.5	14.7	1 • 000004
51000.0		-62.2		191.8	6.093 1	303.4	15.9	1.000643
51530.0	113.3	-63.2		188.0	564.5	301.5	16.7	1.000042
		-64.5		184.4	563.1	250.0	16.4	1.000041
52500.0	107.9	6+49-		180.5	•	2,75.9	16.0	1.000040
53000.0	105.2	-45.1		170.2	-	0.562	14.8	1.000039
_	102.6	-65.2		171.9		709.0	13.6	1.000038
54000.0		-65.3		167.8		208.2	12.9	1.000037
24500.0		-65•1		163.5		201.1	12.3	1.000036
15000.0	95.3	6.4.9-		159.4	264.4	K•002	12.1	1.00005
55500.0		Le4+7		155.3		4.ca>	12.3	1.000035
50000.0	406	ナ・ナンー		151.3	-	1.+0>	12.4	1.000034
0.00500		7.4.2		147.5		2000C	12.3	1.000053
57000.0	86.3	0.49-		143.7		276.8	12.2	1.000032
57500.0	84.2	-64.1		140.2	•	a•0o?	11.2	1.000021
58000.0	82.1	-64.5		137.0	562.0	265.5	10.3	1.000031
58500.0	80.1	9.49		133.9	562.3	7.6,02	8.8	1.000030
•	78.1	<b>-</b> 65.2		130.9	561.8	765.0	7.2	1.000029
59500.0	70.2	-65.6		127.9		2/203	6.5	1.000028
٠	74.3	1.66.0		125.0	1 560.7	25%	ۍ ه.و	1.00006
60500.0	74.5	1.66-4		122.1		249.1	6.1	1.00002
01000.0	70.7	7.6.7		119.5	1 559.7	7.047	0 ••5	1.000027
01500.0	0.69	6.6.9		110.5	559.5	7+7+6	7.2	i • 00000
62000 · 0	67.3	6•9		113.6	4.655	240.1	B.3	1.000065
0.00520	9.29	-67.0		110.8	4.653	258.4	8.9	1.000025
0.5000∙n	•	-6.7.0		100.1	\$50°	C+2+2	7.9	1.000054
63500.0	<b>h•</b> 79	9•09-		105.3	559.8	1.142	6.8	1.00006.3

STATION ALTITUDE "	4051.00 FLF T. SL		UPPL AIR DA 0510030000	A1R DA1A 63000c		vEODE 11	VEODETTI COUNDITIALES
~	0910 MKS 6.58		JALLE 19 Cont'd	Cont'd		106.	106-43511 LON 1EG
	ACHT A March 21	MINE THE	PENSITY	SurFu OF	יינעה הענ"	, (C	INUEX
	DE CAL	NT ADE		SUUMD KNO1S	LERELS(11)	SPEED	UP KEFRACTION
			307.5	4,60,44	4.50%	5.3	1.000023
	2.92				4.107		1.000042
			97.1		297.3	J.	1.00002
	160.4		5.116		290.9	4.2	1.0000.1
•			92.0		294.8	4.1	1.000020
• 7			9.68		203.1	£.4	1.000000
4			87.2	-	272.0	4.6	1.000019
•			3.48		268.5	<b>₫•</b> †	1.000019
3	. ~		82.7		207.5	4.1	1.000018
	. ~		80.4		2002	3.6	1.000018
7	۰.		78.		254.1	3.0	1.000017
			76.2		238.6	5.5	1.000017
,			74.1		215.4	8.5	1.000017
•	۰ م		72.1		100.0	2.0	
			70.2	_	103.3	٠٠ د	
	-		68.3		± 0.1.	o.	
1	-		66.5		13/02	0°2	•
•			64.8		1.55.	æ .	
ż	ر م		63.3		159.1	ນ ເ ນ ເ	1.000014
38	<u>ر</u>		9.10	2/2/2	7.6.7	F - 1	1.00001
č	<b>.</b>		0 0 M		177.	4	1.00001
<u>.</u>	ω.		7.00 7.7.7.	5, 57,55	108.5	1.5	1.00001
ַהַ יַ			LC.		314.5	4.5	
•	5 × × × × × × × × × × × × × × × × × × ×		54.8		310.0	\$ · \$	_
			53.		308.5	5.6	1.000012
20			52.		304.9	6.1	_
, ,			51.		0.040	# 10	1.00001
	. ~		8.64		コ・ケナ	0.4	~
	1.7.7.5		49.6	6 572.1	72.5	8.9	-
	. =		47.5		18.4	8.0	-
1			40.4		7.20	9.5	
3					2.00	10.1	-
· ~			7. 55		V•V3	9.6	-
	_		43.		<b>ガ・5 ガ</b>	9.6	<b>-</b>
			42.2		9006	9.1	-
ň	്ര		41.2	_	0.00	ν. Σ	600000.
ţ	<b>6</b>		• c		r • 0 • 1	7.1	-
ŧ	m		7 · 6 · 6 · 6 · 6 · 6 · 6 · 6 · 6 · 6 ·	1.7/0 7	1 0 3 T	77.49	, ~-
2	7 -50.7		90		1.001	2	22220114

ουυυετι, τουκυινατες 35.το/12 LAT beG 106.49511 LOH DEG	INCEX OF S ALFRACTION	6.1 1.000009	0.1 1.0000UB	4.9 1.0000UR	-	-	~	•	3.3 1.000007	7.000007		~	12.9 1.000006	1.000006		16.9 1.000006	~			٠,		·	7			-	16.5 1.000004	1.000004	1.000004	1.000004	1.000004	1.000004	1.0000%
رد دان ا	Alba JAFA JECTION SPEED CORLESCIN MOUS			1.5.1					V 98.9			6 1.60.															233.1 16						
UPPLP AIM DATA OSIONSUODA JALLEN TABLE 19 Cont'd	DELISITY SPLFU OF GM/CUBIC SOUND METER NAOLS	37.1 574.1	30.1 575.1	35.2 576.0	•				30.8 580.3	2001 1.00 2014 4.00			27.3 5H1.4				24.9 582.5	-			62.8 580.3						••	-	18.6 580.0	•	17.8 580.5	17.4 586.5	
	TEMPERATURE REL.HUM. AIR DEWPOINT PERCENT DEGREES CEATIGRADE	-56.0	<b>-</b> 555•3	-54.5	-53.8	-53.0	-52•3	-51.5	151.0	0 · 0 · 1	1,000	<b>-</b> 50•6	-F.O.+4	-50+3	-50•1	6•64-	8.6h-	-50.0	# O □ =	88 · 0 · 1	2•1°	-50.6	21671	か・オー	C•0ħ1	6.01	#*9 <sup>1</sup> 1	++Q+-	1,6.4	-46.5	-1,6.5	1:00.0	9.03.
STATION ALTITUDE 4051 20 Feb. u2 09 Ascension no. 8	GEUWETRIC PRESSURE ALTITUDE MSL FEET MILLIDARS DE	84000.0 25.2		85000.0 22.1	21.6	21.1	9•02	20•1	8/500.0 19.6	14.7	18.3	17.9	17.5	17.1	10.7	16.3	15.9	15.6	15.2	5 ÷ 1	0.0	7.5	10.9	2.5		13.0	14.	12.4	17.1	11.8	11.6	93500.0 11.3	10.8

VEOULTI, COOKUINATES 33-10712 LAT DEG 106-49511 LON DEG	AIND DATA	_	8.0 7.46	-	~	14.1	5,4.6				51.5 29.3			55.5 41.8		5*47 7*42	276.2 15.7	295.5 10.1		-				267.7 4.1	132.9 0.8	73.0 0.9			154.5
	Ţ	بد و	بي.	٦		7	ń	ลัง	ň	Ĩ	ž	۵	*	ភ	<u>ئ</u>	74	276	62	30,	265	26,	245	274	20	13,	7	110	11	บั
בעברט 00	NEL MULL	,	33.	29.	27.	25.	2°•	37.	27.	21.	21.	24.	35.																
MANDATORY LEVELS 051005000 JALLEN TABLE 20	TEMPERATURE R DESPOINT	CENTIGRADE	9.4-	-8.9	-12.4	-16.8	-17.9	-18.0	-26.0	-32.8	-37.6	1-75.4	-45.0																
2	TEMPE	S	10.8	7.9	5.1	2.1	-1.0	-5.7	-10.R	-15.5	-21.1	-28.5	194.4	-42.5	-51.3	-57.5	-53.4	-55.5	6.09-	-65.3	-64.8	6.99-	-66.0	6.29-	-57.4	-57.5	-57.9	-51.4	-50.7
1 SL N.S.1	PRESSURE GEOPOTENTIAL	FEET	5978.	6724.	8463.	10299.	12252.	14328.	16544.	18926.	21507.	24321.	27428.	30903.	34H72.	39538.	42345.	45597.	49366.	53862.	58335	60995	64053.	67709.	72280.	78243.	<b>82018</b> •	966998	92855.
4051.n0 FEET "SL 091n HRS KST 8	PRESSURE GI	MILLIMARS	A50.n	0.008	750.0	700°	u•05 <sup>9</sup>	0.009	550.0	500·F	1,50.0	400°	350.0	300.0	250 · n	200.0	175.0	150.0	125.0	100.0	90.0	70.0	60.0	50.0	40.0	30.0	25.0	20.0	15.0
STATION ALTITUDE 20 FEB. 02 ASCENSION NO.																	,	38	}										

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE AAS USED IN THE INTERPOLATION.

1915			
	STAILON ALTITUDE 3989.00 FFEI SL	20 FEB. 62 0911 HRS 1/51	ASCENSION HO. 65

۲,			
SIGNIFICANT LEVEL UNIA	651002000	WHITE JANUS	
IGELF ICAL	6510	WHITE	
ζ.			

okohelle courativates 32-40043 kal deg 106-3733 kok 1/6

TABLE 21

PAESSIM	GE DMETH 1C	TEMPE	TEMPERATURE	N.L IIUM.
HLLIBARS	ALTITUDE ASL FEET	AIR DF SPEES	DEMPUTUI CENTTOKAUL	PEKLENT
884.4	3989.0	12.2	2.1	0.00
73.	26.	11.1		
656.0	5	10.1	0.1-	40.0
625.A	'n	7.6	<b>10.4</b>	34.0
797.H	4,8182.6	p.7	3.8-	
725.to	-	£•‡	30.0	45.0
700.0	16317.2	2.7	-12.7	
•	11031.9	1.8	-14.3	29.0
~	2755	-2.4	-11.5	
0	13799.9	-5.1	-13.6	
	4147.	6.4-	-15.9	
	•	9.9-	-19.6	34.0
547.6	•	$\overline{}$	6.22-	35.0
	17425.7	Ç.	6.07-	
	18964.8	1.0	9.65.	•
	24374.3	~	h• 7h-	75.0
557.R	26981.5	±33•8	2.04-	30.0
æ.	28707.5		-49.5	20.0
ď	30433.2	6.		
Ö	30066.4	$^{\circ}$		
	31767.2	-42.6		
	34901.7	3		
	37330.0	-55.3		
Þ	37006.9	-53.9		
	30002-4	-51.5		
	34703.8	-52.00		
¢	40285.5	F1.7•3		
ٺ	40794.8	-51.H		
	44509.7	-53.1		
ح	45/123-1	-54.7		
1.6	50190.2	-6.0.B		
1.2	52023.2	•		
ج	54183.8	0.4.4		
ڔ	56476.6	-6.7.2		
0.0	61.323+3	•		
5.6	65040.6	-65.5		
ے د	± 0	1.2.1		
ځ	1694	5.8.5 -		
33.2	76585.2	-5.8.5		
ئے	8705.	8.4.1-		

STATION ALTITULE 3989-48 FEET SE 20 FEB. 82 0911 HRS MS1 ASCLINSION NO. 65

TABLE 21 Cont'd

TEMPERATURE AIR DEWPOINI OF GREES CENTIGNAUL PRESSUR, GEOMETAIL ALTITUDE MILLIBARS MSL FELT

-55.8

61239.8

26.6 21.8 20.0 17.0 15.1

85461.6 87301.7 90775.1

KLL.IUM. PEKCENT

-53.8 -53.8 -52.3

40

THE THE PROPERTY OF THE PROPER

STATION ALITTUDE 20 PEB. 82	ŀĎ	989-00 FEET S 0911 HRS NST	155L 8.5.f		UPPER ATK DATE OF UST 0519020005	0.00 to 1.00 t		e£00c.11	CEODETTE COUNTAMITS
ASCENSION 110.	110. 65			1	TABLE 22			106.	106+37033 LON JEG
GEUNETRIC	PRESSURE	TERP TP	TERPERATURE	KEL HUM.	OFFICITY	Specific OF	ALNO DATA	1] A SPE 6 11	I LOCX
MSL FEET	MILLIDARS	DEGREES	CENTIGRADE			NAC 1S	LOKELS (IN)	KIJOTS	HEFKACT 101.
3989.0	884.4	12.2	2.1	50•U	1070.4	_	0.00	9.0	1.000273
0.0004	0.488	12.5	Û• €	7°64	1070.2	_	0.67	သ ဝ ရ	1.000273
3 • 00ch	7 - 000	6.01	C•1-	7.24	7.7601		2 2	0.07	1.0.076.0
5.000°	0520 846.9	2.0	0 • F	កស្ត ក្រុ	1040.5	0.000 0.000	4 . 7	15.5	1.000252
0.0000	821.7	9•6	-7.E	33.1	1010.7			19.3	1.000244
6500•0	806.7	9.0	-7.6	59.9	η η η ό ο	_	1.6.00	20.7	
7000-0	792.0	<b>₽•8</b>	- R • R -	29.3	978.0	_	309•0	21.5	1.000255
7500.0	777.4	7.5	-7.8	32.6	963.4	Ī	4.44,	19.6	1.5000.1
6000.n	763.1	9•9	-7-4	36.0	946.5	7.250	351.4	17.5	1.000228
3500.0	749.1	5.8	-7.0	39•3	933.9		0.100	16.1	1.0002co
9000.0	735+3	4.9	<b>1.9-</b>	42.6	919.5	-	452.0	14.7	1.0002.3
9500.0	721.8	4•1	4-7-	42.9	4°C06	7.649	7.	13.5	1.000219
1000000	705.4	3.2	-10.5	35.6	891.6	_	10.4	12.4	1.000212
10500.	695.2	S • S	-13-1	30.5	877.6		75.3	1.1.	1.0000-07
11000.0	582.5	e r	-14.2	29.1	265.3		C•0C	10.5	1.000202
0.00511	4.00	•	1.41	29.5	7.000		7 • / • / •	11.0	1.00199
0.00401	0.000	0 0	15.45 16.47	30.1	0.000 4.000	n - n = 1	* `	7.4.	1.000195
15000.0	632.2	3.0	-16.1	35.7	814.5		1.10	15.6	1.000190
13500.0	620.1	D	-14.4	45.3	802.6		7.97	15.2	1.000169
14000.0	608.3	-5.6	-14.9	47.5	790.9	_	42.5	15.0	1.000100
14500.0	9•065	-6.2	-17.7	39.6	6.777		51.7	15.5	1.000161
15000.0	585•1	6.9-	-20.0	34.1	764.8		7.50	16.3	1.0001/7
15509.0	573.7	6.0	-20.9	34 • 34 24 • 34	74.1.3	1.450	0.4.0 0.4.0	18.2	1.000174
10500.0	551.6	-10.0	-22.5	34.9	729.B		38.4	20.6	1.000108
17000-6	540.9	-11.2	-21.9	6.04	710.9	_	41.1	21.2	1.000100
17500.9	530.2	-12.6	-21.3	48.0	705.3		1.00%	21.0	1.000104
18000.0	219.7	-13.7	-23.9	41.5	697.4	_	0.50	50.4	1.000160
10500.0	509.4	-14.8	-26.8	35.0	1980.7		٥٠٤٠	70.0	1.000157
19000.0	5°764	16.0	-29.9	29.0	0.079		a•/o:	19.e	1.000153
19500.0	484.1	-17.0	-31.0	53.5	665.0		7.47	19.9	1.000151
u-00002	1.6/4	-18.1	-32.2	7.12	T*#00		0.0	20.4	1.000143
20202 2000-0	7075	1901-	133.3	27.0	043.0		2:2	20.9	1.000145
0.00417	4004	0.0/-	24.75	7 000	0.00		1000	1.12	1.000143
0.00000	1001	121.6	4.00	0.00	0.22.0	-	+ J	0.17	1.0001.40
2<500.0	432.2	-23.4	5.05. 5.05.	24 · t	502.0	517.10 15.21	01.0	27.4	1.000130
25000.0	425.5	4.40-	-30.2	23.8	592.8		0.60	31.9	1.000103

~EUDETic COUNDINATES 32.40043 LAT DEG 106.37033 LON DEG	INCLA
∨EUDLTi 32. 106.	TEMPERATURE RELATION DEASITY SPEED OF LITTED DATA ATH DEMPOTER PERCENT GAZCURIC SOLGO THE LITTED SPEED
UniA 1065 105 Cont'd	Street or
UPPLA ATH DAIN 0510020065 WHITE SANDS	DEAST TY
	REL. HUM. PERCERIT
STATION ALIITUDE 3989.00 FEFT USL 20 FEB. 62 0911 HRS MST ASCENSION NO. 65	TEMPERATURE
IITUDE 3989 09 10. 65	PRESSURE
STATION ALTITUDE 3. 20 FEB: 62 ASCENSION NO: 65	SEUNETRIC PRESSURE

ASCENSION NO.	.01			•	TABLE 22 Co	Cont'd		106.	106-37033 LON UEG
SEUNETRIC ALITUDE MSL FELT	PRESSURE MILLIGARS	PEGR	TEMPERATURE K DEWPOTHT EES CEATIGRADE	HERCEHT	UENSITY GM/CUPIC METER	SPLED OF SOUGHD NHOTS	LIND DAIR LIR, LTICH S	SPEED KNOTS	INULX UF KEFKAC 1100
23500.0		-25.5	t • U ti -	23.1	583.1	013.2	0.00	37.4	1+960151
24000.0	_	2.90-	-41.5	22.5	573.7	_	t•00	42.3	1.0001.9
Z4500.0		9.20-	-42.5	22.4	564.4		01.7	45.2	1.000127
25000.6		-78.9	-43.0	23.9	555.3	5.500	r. • > 1	48.2	1.000125
3.00445		- 30 • 1	-43.5	25.5	540.3	_	0.50	50.5	1.0001.3
J•00097		-31.4	-44.1	27.0	537.5	5.00°	/ • (I) o	52.0	1.0001.0
2020A		-32.6	L. 11 11 -	28.5	520.9	C-400	5.69	53.5	1.000119
< 7000-5		-33.A	-45.3	30.0	520.4	_	57.9	54.5	1.000117
27500.0		-35.0	9.94-	4.62	511.7		57.1	55.4	1.000115
0.00085		-36.2	-47.H	28.8	503.1	599.7	1.90	55.4	1.000115
28500.0		4.75-	0.04-	28.2	1.494.7		1.60	55.4	1.000111
~6006~		-38.7	-51.0	23,3**	486.5		0.69	54 • 3	1.000109
2.3500.0		-40.0	-56.4	S	470.5	6+460	58·9c	53.2	1.000107
		-41.3	-63.3	7.1**	470.0		27.0	53.1	1.000105
3.00505 42		-42.4			462.4	-	2000	53.3	1.000103
31000.0	299.5	-42.0			451.5		24.0	53.2	1.000101
51500.0		-42.4			442.2		5.20	53.0	1.000098
32000•0		-43.2			433.8		51.0	52.6	1.600097
32500 • 6		2.44-5			420.5	589.0	1.04	51.5	1 • 000095
33000•0	273.5	-45.9			419.2	587.3	40.0	50.4	1.00003
33500•0		-47.2			412.2	580.0	43.7	49.3	1.000042
34000.0		-48.5			405.2	563.9	0 • <b>1</b> •	48.2	1.000000
34500.0	255.3	6.64-			398.4		3000	47.3	1.000009
35000.0		-51.2			391.0	580.4	1.45	43.4	1 • 000007
35500.0		-52.1			384.0	579.5	71.0	39.6	1.00.000.
30000		-55.0			376.0		4.1.7	35.7	1.00004
36500•0		-43.B			369.3		<2.0	31.6	1.000002
37000.c		1:4:1			362.2		19.0	28.3	1.000001
37500.0		154.8			353.9		1.9.2	25.0	1.600079
38000.0		-41.5			340.5		19.0	21.6	1.000076
36500.0	211.6	-51.8			333.1		Ǖ91	18.2	1.000074
29000.0		-52.1			325.6		1001	14.7	1.000073
3.9500.c		-52.5			110.7		٥٠٠	11.1	1.00001
40000	197.2	-53.0			312.0		\$ • O 5 .	S•3	1.000003
40500.0	~	-£2.7			304.4	570.0	(1.4/1)	η·Ω	1.600000
41000.0	~	-51.9			296.3		0.400	0.6	1 • 800000
41500.0		-6.2.0			283.0		7.00,7	10.8	1.000005
42000-0	_	-52.8			283.1	575-1	a•0a?	11.9	1.000003
J*0042#	175.4	-5.2.4			270.8	9.0%c	0.102	12.7	1.000nc2
43000.0	~	-52.6			270.6	573÷0	2.4.0	14.0	1.000000

\*\* AT LEAST ONE KSS, MED PELATIVE ABIJITIY VALUE AAS USEL TO THE TRILL POLATION

		•		HILE AIR U.	41.16		,	
STATION ALITIONE 20 FER. 62		3989+00 FFET / SL 0911 HRC 1:51		Briff JAPAC	2.3		400ET	SECUELIC COORDINATES
ASCENSION NO	. e5				,		100.	100-37033 LUN LEG
				TABLE 22 CO	22 Contid			
GEUNE TRIC	PHESJURE	٠.٠		1. 1. 1.	South up	"THE DAIL	<u>:</u>	INLX
ALTITUDE MSL FEET	HILLIUARS	DELAKES CELTICARDE	PERCLI.T	ં ઉજ્ કુ	Chillian S10015	. Lit. C 1 10.4	3PLE0	OF Kr FRACTION
43500.0	167.83	-52.7		467	40.7	H-St. V	14.2	Ostorno I
	163.5	6.2.1		250.00	70.1	252.0		1.00003
44500.0	159.7	-53-1		8.2.24	577.5	252.6	20.7	1.000056
45000.0	150.9	-53.7		247.0	57/01	252.5	23.2	1.000055
6.00004	152.5	0 · 3 · 1		オーソカノ	570.5	2.5.2	25.1	1.000054
40500.0	140.2	\$		2000	0.07.2 C 0.07.2	N. D. V.		1.000003
47000.0	141.8	-56.3		227.8	573.6	5.603	26.7	1.000051
47500.0	130.4	-57.0		223.1	572.1	h•00.7	28.1	1.00000
44000.0	135.1	-57.7		210.5	571.6	202.0	28.3	1.000049
49500.0	131.9	1500.4		214.0	570.9	201.0	27.3	1.000048
49000-0	124.6			204.6	4.699	271.6	26.4	1.000047
0.00004	120.7			2.00×	0.6,00	6.007	23.9	
300000 300000	1.0.1	0.071		10102	1.093	1.167	1.22	
51000.0	11009	000		191	0.47.0	4.5.5	10.0	********
51500.0	114.1	0000		187.3	36.7.36	20.25	17.8	1 - 000042
52000-0	111.3	-61.1		182.9	56/65	2.562	16.7	1.000041
5<500.6	100.6	-61.7		179.0	260.4	291.9	15.6	1.000640
53000.0	100.0	4-29-		175.2	500.5	299.5	14.6	1.000039
5.5500.0	103.4	-6.3•1		171.5	564.6	200.0	13.5	1.000038
24000.0	100.9	163.6		167.9	563.7	203.4	12.5	1.000027
5450 <b>0.0</b>	300	1/2 · 5		164.3	262.6	280•u	11.5	1.000057
0.0000	9.06			9.007	6.190	2.0.7	8.01	1.000036
56000.0	93.0	0.041 0.041		154.0	560.9	203.1	10.0	1 - 000055
26500.0	89.1	-67.2		150.7	559.1	263.0	10.8	1.000034
57000cc	80.9	-67.0		140.9	559.3	2.402	10.7	1.00003.3
57500.0	84.7	-66.8		143.1	559.6	201.5	10.3	1.000032
58000.0	84.7	7-66-7		139.5	559.4	276.5	9.8	1.000021
28500 · 0	80.0	160.5		135.9	0.095	2/7.0	₽. •	1.00000
3*000KC	0.8/	1.50 · J		132.4	560.3	4.0/7	9.8	1.000029
3-0006.5	100	-66.1		129.0	560.5	2/0.9	0 · 3	1.000029
20000	•	0.091		120.8	56U•c	7.50	?.	1.000cg
51000 to	71.1	0.4		7 011	D•140	2.85.	ə •	1.00002
20000	107	ייני אַ פּיני		119.4	20100	2070	<b>.</b>	1.0000.
62000.6	6/1	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0		4.5.1	30106	707	9.4	5700001
62500.¢	0.09	- 655 - 555 - 555		110.6	561.4	20105	, IU	1.0000
63000.0	4.49	-65.5		100.0	561.4	6.17.7	0.	1.00004

STATION ALITIUDE 20 FEB. 82	39	989.00 FELT SL 0911 HRS HST	2	UPPLR AIM UNT 0510020065 WHITE SANDS	< 1.00 ×		ocobc 11.	LTI, COONDINATES 32.40045 LAT 116
•	٠ دې		·	TABLE 22 C	22 Cont'd		106.	106.3/033 LON DEG
GEUMETHIC	PRESSURE	TEMPERATURE AIR DEMPOINT	KEL .HUM. 1	DEMSITY GMZCURIC	SPLED OF	SIND UNIA	1A SPEEU	INJEX
MSL FEET	MILLIBARS	OE	1	NETER	A11015	ONEES (TN)	NWOT'S	KEFKACT101.
63500.N	6.79	-65.5		105.4	561.4	n•9a7	3.0	1.000023
0.000+9		16.00 10.00		102.8		202.9		1.000063
0.00034	0 4 1	1500		100.0		7 07,		7.0000.1
0.00000		1,55		#*G6	561.4	157.4	* * * * * * * * * * * * * * * * * * *	1.000021
0.00000		-65.4		95.0		202.1	4.0	1.0000
66500.0	54.1	9•49-		<b>7.</b> 06		5.04Z	6.5	1.000020
67000.0		-63.B		87.9		204.0	8.7	
0.00579		0.7.0		30,00		273.8	3.6	1.000019
0.00000		102.3		0.00		207°	5°6	1.000018
0.0000	0.64			מיחט א	550.0	27042	0 t	1.000016
69500.0	9	1000		70.6	_	2.400	6.6	1.000018
700007	9.04	160.0		74.5		は・かまつ	8.9	1.000017
70500.0		-59.5		72.6		3.4	9.8	1.000016
71000.	オ・ウオ	-59.0		70.6		·74	6.7	
71500.0	± • ₹ • ₹	1.8c		68.8		01.3	<b>⊅</b> 6	1.000015
7.20n0.0	# • T #	-5a.2		1.79		0.KOT	2 .	1.000015
7.000-0	# 0 0 F	2 m		65.55	571.1	150.6	***	1.000015
7.5500.0		7 m		200		2.50	7.0	4.00004
74000-0		1000 1000 1000 1000 1000 1000 1000 100		61.0		7+6+1	5.6	1.00001
74500.0		-56.4		59.5		147.5	\$ • \$	1.000013
75000.0	35.8	-58.t		54.1	570.9	143.4	J. C.	1.000013
75500.0	35.0	\$ 100 cm		56.7		142.4	ผู้เ	1.000013
70500	3.5.4	ດ ເດ ໝ ໝ ໄປ ໄປ		1 * #S	570.0	211.4	, v	1.000012
77000.0	34.5	-58.0		52.7		C.19.	1.8	7:000012
77500.0	31.8	-57.3		51.3		1.56.4	1	1.00001
78000.0	31.0	-56.7		6.64		44.5	1.6	1.000011
78500.0		-56.1		46.6		2.70	4.0	1.000011
75500.0	27.0	30 W		*		0.27		1.00001
3.00004	28.5			2 c c c c c c c c c c c c c c c c c c c	74.5	2000 2000	2.0	1.000010
80500.0	27.5	-55.8 5.00		44.2		7.76	7.0	1.000010
61000.0		-55.8		45.1		47.1	6.9	1.00001
81500.0	26.3	#55×6		42.1		5.701	7.9	1.4400009
32000.0	25.7	1,500 1,000		0 T b		110.5	7.0	1.000004
0.00023	25.1	10 to		0.04		112.5	2 · S	1.000009
0.01.00	7.57	D • # 5.		D• AC	7.07.0	0 * * 7 1	0.0	1.00000

VEUDETI, COORDINATES 32-40043 LAT DEG 106-3/033 LON DEG	INUEX OP IKEFKACTION	1.00000H	1.000008	1.000008	1.000007	1.000007	1.000007	1.000067	1.000007	1.000007	1.000006	1.000006	1.000006	1.000006	1.000006	1.000006	1.000006	1.000005	1.000005
otubell, 32.4 1u6.3	1A SPEED KNOTS	5.1	5.2	3.5	2.7	J.,	# F	3.5	7°¢	1.2	1.2	2.1	3.0	5.7	8.8	11.9			
	"INELTION DAIN INC. JOHELSCHN) MI	110.0	74.4	129.3	130.0	1,33.1	1<9.0	158.1	149.9	105.3	156.5	134.2	132.7	1.961	142.0	143.4			
onla So Sont'd	SELFU OF SCUMD NAOLS	570.6 577.1	577.6	570.5	570.3	570.1	577.9	577.8	570.0	570.5	576.4	570.5	570-1	570.9	579.3	580.0	580.7	583.4	582.1
UPPLR AIN DATA 0510020065 WHITE SANDS TABLE 22 CONT'd	ပ	38.0	36.1	7. TE	33.0	32.8	32.1	31.4	30.6	29.9	29.5	28.5	27.8	27.2	26.5	25.8	25.2	24.5	23.9
-	PERCENT 6M/CUBI																		
3989•∩0 FEET ∴SL 0911 HRS №51 5	TEMPLRATURE AIR DEWPOINT DEGREES CENTIGRADE	-54.1 -53.7	53.3	-52.6	-52.8	52.9	53.1	-53•1	-53.0	-52.9	-52.8	-52.6	52.5	-52.4	-52.1	-51.5	-51.0	150.4	6.6h-
1 <sup>U</sup> DE	PRESJURE MILLIBARS DE	0.550 25.00 25.00	<b>60</b> M	21.8	r)	60	in)	æ0	19.4	σ.	18.5	0	9	2	ø	<b>‡</b>	-	2	15.3
STATION ALTITUDE 20 FEB. 02 ASCENSION NO.	GEOMETRIC AL FITUDE MSL PEET	63500•a	84500.0	0.00000	3.00008	86500.0	87000.C	97500.0	9600099	3.00588	0.00068	0.00348	900006	₩ 90500·0		91500.0	92000.0	92500.0	93000.0

STATION ALTITUDE 3989.00 FEET 45L 20 FEB. 82 0911 HRS H51 ASCENSION NO. 65

## TABLE 23

	A 202	STEED KNOTS																										
	AIA	XX	13.7	21.1	10.2	11.5	13.7	10.3	7.07	1.3.8	51.4	\$ · † †	55.4	5,50	43.8	٠. و.	14.8	45.5	23.5	12.2	7.1	6.0	6.	9.6	10.2	4.8	7.0	7.0
	WIND DAIA	JEGREES (TN)	9.5		351.0		53.5			66.3		61.4					250.8	255.0		782.4	6.012	269.5	163.1	285.4	オ・ウナー	2.69	112.4	150.4
	AEL .HOr.	75.5.1		20.	39.	31.	30.	.74	35.	29.	20.	22.	29•															
IABLE 23	TEMPERATURE	CENTIGRADE	-1.0	-8.5	-7.0	-12.7	-16.4	-16.9	-22.1	-29.8	-35.7	-45.4	-46.5															
		Ņ	10.1	8.8	5.8	2.7	-1.2	-6.1	-10.2	-15.9	-21.3	-27.3	-35.0	-45.0	-51.1	-52.6	-52.4	-54.7	-60.0	0.49-	-66.4	-65.5	-65.5	-62.1	-58.3	-55.8	-54 · A	-53.2
	EOPOTENTIA	FEET	5072.	6722.	8465.	10307.	12262.	14336.	16555.	18938.	21516.	24334.	27439.	.30905	34886.	39609.	42442.	45700.	49481.	.94016	58454	01113.	64189.	o7645.	72421.	/8371.	821A2.	,46894
	PRESSURE GEOPOTENTIAL	MILLIBARS	ก.50.ง	A00.	750.0	700.0	650·n	P.009	550.0	200.0	450·n	0.001	350.0	300•0	250.₽	200 · u	175.0	150.0	125.0	100.0	90.u	70.0	U•09	0.0¢	ٕ0+	30.0	25.0	20.0

